

MODIFIED LEVY

Continued from front page

ers came blanché over whether they will absorb the levy or pass it on, and whether they will register with the Industry Organisation or not," James Devereux of Incept tells *PN*.

Peter Davis Incept chief executive tells *PN*: "Incept fears that the cost of administering the proposed scheme may be out of all proportion to

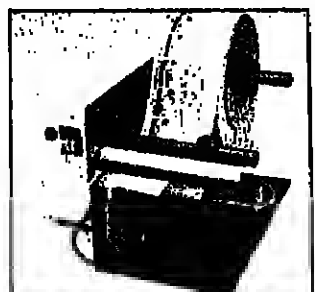
the amount collected for recovery and recycling measures.

"By raising the levy at different points in the distribution chain the opportunity to create an easily recognised consumer symbol such as the Green Dot on the Continent is lost. With no sign on packed goods the scheme loses the chance to create much needed consumer awareness about the recovery and recycling being undertaken," says Mr Davis.

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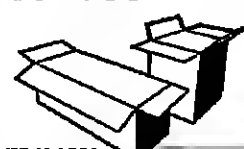
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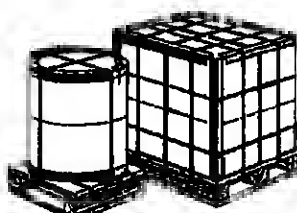
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Padded postal bag benefits

Changes to padded bags from Jiffy Packaging Company Ltd and other postal bags in its range have been made to give users added benefits including the option of self sealing.

Research carried out on behalf of Jiffy in both the consumer and commercial markets showed that key issues for users were the protection that the padded bags were known to offer, but also bag closing, opening for reuse, the type and size of objects each bag was suitable for as well as print and graphics.

While the padded postal bags were seen as providing the best protection, sealing the pack for peace of mind was a major concern. Now, on selected padded bags and Mailmiser kraft and plastics bubble lining bags a specially strong adhesive is used for security and user reassurance. As one consumer interviewed put it: "If the glue were good enough we wouldn't

END OF LINE SOLUTION
Continued from front page

monomaterial pc film and board blanks are used.

The decision to repack the product for transit reflected a surge in the popularity of fruit flavoured teas in the Netherlands. Initially, the system used hot air to seal stretch film around the canons and U-card, but replacing this with a stretch, envelope-fold and heat seal combination has led to a reduction in energy consumption by three-quarters, says Sollas (Unit 12, Ardgen Industrial Estate, Whitechurch, Hants RG28 7BB - tel: 0256 896930, fax: 896665).

Options with the U-card include a minimal quantity of board - B-flute is used - sufficient to keep the canons in place or enough board on one side to reach the full height of the col-



Jiffy bags: key for the user is protection given by the padded bags have to staple them."

Since the external dimensions of the bag may not give a clear indication of the internal capacity, recommendations coming out of Jiffy's research also included giving clear guidance to users. Bags now display dimensions, such as A4, and in some cases suggested uses.

In the Mailmiser range, there is a series of dedicated sizes - indicated on the back

laid cartons, in one or two layers. This option clearly gives much greater support on the pallet load, and the opportunity to include a logo or graphics.

Marketing advantages of the system include a possible open shelf fronting of the primary cartons. Perforations applied to the top reel of film mean that the collation can easily be stripped down by the retailer to leave a band deep enough to hold the collation together as an open display. Alternatively, the card can act as a chute for easy loading directly onto the shelf.

Douwe Egberts also uses integrated inkjet coding on the machine. Easy removal of the overwrapping, a minimal use of materials (with reduced packaging costs) and improved stackability are among other benefits enumerated by Sollas.

with symbols - for cds, video, audio and camcorder tapes, explains Jiffy (Industrial Estate, Winsford, Ches CW7 3QR - tel: 01606 551221, fax: 592634).

Although the padded bags have always been reusable, it was clear that recipients needed more guidance as to how best to open them with reuse in mind.

It was also felt that the monomaterial content of the

padded bags - which are only with a minimum of 76 per cent recycled paper - could be highlighted, and a barcode specific to the type of bag included across the whole range.

Businesslike black

A more 'businesslike' black, rather than the familiar red printing is now used, among other reasons to ensure that the barcode is scannable. Large volume users of the bags have the opportunity to specify single colour decoration of their own. The Jiffy logo is still there along with the company's address, and the basic gold colour of the bags was retained for the padded bags and, if required, the Mailmiser range.

Because they involve more complex production, Jiffy has had to increase prices by 15 per cent for the self-seal padded bags, says the company, part of the Billmeyer Teterode group.

For further information K9 100 Call for details 0839 772268



The Sollas end of line system is cost effective for teabag cartons

Training was given to Douwe Egberts operators at the machine manufacturer's Netherlands headquarters.

According to Pieter Oly, president of Sollas, Cartostretch is not only suitable for a light cartoned product such as tea. Other applications have included powdered milk, biscuits, soups and 1kg cartons of petfood, he tells *PN*.

By using heated plates to seal the stretched and folded film, Sollas has made the process much more compact than, say, an inline traypacker and shrink tunnel.

Cartostretch will feature in the Sollas display at the PPMA show, Birmingham, 27-29 September (Stand: 5620).

For further information K9 176 Call for details 0839 772268

PACKAGING NEWS

OCTOBER 1994

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Reliable backup sells
pallet robot systems

Installations of Bankside Industrial Engineers' UK-built palletising robot now include ICI Chemicals & Polymers and Lever Industrial, with quick commissioning and reliable backup cited as major advantages by these end users.

Bankside's AR4 Argonaut robot palletiser installed at Lever Industrial, Runcorn, is palletising 9kg, 10kg and 11kg cartons of Surf, Persil and Radion powdered detergent, moving six packs at a time.

As the UK's only manufac-

turer of single column rotating articulated arm robot palletisers, Bankside has an advantage over some competitors in being able to give rapid support to customers, and Lever confirms that this influenced its purchase decision.

"During the project, nothing appeared to be too much trouble for Bankside," says Mike Turvill, production supervisor at Lever. System implementation of the AR4 took just one and a half days, according to project manager Colin Hart.

The earlier installation impressed ICI Billingham with the simplicity and consistency of the system. Both companies were influenced in their decision to look for a robot pal-

Continued on back page

Oxygen exclusion
gives meat long life

Genuine controlled atmosphere packaging for meat, offering shelf life of up to 16 weeks for lamb, is now available in the UK, says New Zealand developer of the system Transpak.

Chill-Tec, as the technology is called, differs from other controlled atmosphere systems in rigorously excluding oxygen from the pack and replacing it with high purity CO₂, says Transpak, which is part of the Amcor group. "This is the most significant advance in the meat industry since the advent of vacuum packaging," says Paul Clarker, market development manager at Transpak.

Typical shelf life using Chill-Tec is up to 10 weeks for poultry or pork and up to 20 weeks for beef.

Residual headspace oxygen after treatment in the in-chamber snorkel system is typically

less than 300 parts per million. The received wisdom that a high purity CO₂ atmosphere is responsible for the bleaching of red meat has been questioned. New Zealand's Meat Industry Research Institute (MIRINZ) has identified residual oxygen as the cause of this.

Alternative systems, even with multiple flushing, do not have great success in removing all oxygen from packs and cannot achieve repeatable results, according to the company.

The co-ex barrier film used - also supplied through Transpak - is crucial to the success of the system, since it forms a real barrier to ingress of oxygen and loss of CO₂.

When the system was first developed in New Zealand, it was used for the shipping of lamb by sea to foreign markets, where transport by air would

Continued on back page



Lynx redesign: winning pack from Julie Wooller is in the foreground

Student design 'Lynx'

Swindon College student Julie Wooller took top prize in a design project set up between the Art and Design School, BPC Taylowe and Elida Gibbs.

The project involved Elida Gibbs' established Lynx brand and the redesign of its 200ml shower gel and 150ml body spray pack. Students had to make sure that the pack allowed at least part of the contents to be visible, that it could be easily erected and loaded by hand, and that it was economical from a unit price and a perceived environmental standpoint.

"We are delighted with the efforts from the students in response to the brief," says Kumar Abraham, packaging project manager at Elida

Gibbs. "Especially the winning pack which has the potential to go the whole way: a very masculine and radical design with a practical edge."

An award of £150 was up for grabs for any design feature selected by both BPC Taylowe and Elida Gibbs which proceeds to production.

Taylowe and Elida Gibbs both actively support closer links with educational establishments. Taylowe (Malvern Road, Furze Platt, Maidenhead, Berks SL6 7RF - tel: 0628 413333, fax: 413397) says that three former students of Swindon College are now working in its own design department.

● Full report on page 25.
For further information K10 109 Call for details 0839 772268

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“In his chairman's review of the Packaging Standard Council's (PSC) Half Year Report, Lord Clinton-Davis says that it is now "well established as a reliable source of independent advice in the often confused and confusing world of packaging" (see page 4). He talks of the PSC's closer links established with consumer groups as well as a considerable presence in the media.

Bearing in mind this success, it is sad that in his report, Lord Clinton-Davis has to once again return to the subject of funding. The reduction in support from Incpen (The Industry Council for Packaging and the Environment) has now been confirmed and industry response to requests for funding is said to have been mixed.

"This is a parlous situation," says Lord Clinton-Davis. "The PSC has been welcomed by bodies ranging from government to packaging manufacturers and retailers and to environmental and consumer groups. Its role is consistent with the government's work on packaging, in particular the work on minimisation complements Mr Gummer's requirements for producer responsibility."

With the publication of the PSC's Code of Practice for the Packaging of Consumer Goods and an increasingly high profile, the PSC now needs to attract additional funds. Some additional funding has been secured from industry bodies and even an individual company, but to widen its activities, more money is required.

Contributors so far include the Alliance for Beverage Cartons in Europe, Wine & Spirits Association, Scotch Whisky Association, Metal Packaging Manufacturers Association, British Plastics Federation, British Carton Association and Plysu plc.

It is surely in everyone's interest for the PSC to not only continue its current programme but also to expand its activities. As packaging gains a higher profile in the media and general public's minds, the need for an independent body becomes more and more important. Yes, of course, government support would be an ideal solution, and one that consumer groups have tried to encourage, but the likelihood of this is, as we all know, remote.

The PSC has demonstrated that it is a 'friend' to the consumer by not shirking from tackling companies to persuade them to improve 'bad' packaging. Let's face it, we all know it exists. But, and more importantly from the packaging chain's point of view, the PSC has also defended 'good' packaging to complainants.

The Code of Practice has gained a particular welcome from Trading Standards Officers, who find it a useful way to fill the gap between their area of responsibility for upholding strict legislation on packaging in areas such as misrepresentation and complaints they may receive about packaging in less well-defined areas such as openness or excessive packaging.

This area of work is vital if the evil of society - packaging - is ever going to clean up its image.

Gail Lea, Editor



Cartons contribute to hair colourant success

Success for hair colour manufacturer Clairol of its Ultrase line, just launched in the UK, has been helped by cartons from German company CD Cartondruck.

Under the brand name Monif, the hair colourant has also been launched in other European countries.

Printed gravure

A significant factor in the success of Ultrase internationally has been the graphic design from the Clairol Creative Services Group in the US. The latest design was launched in the US and printed gravure. This won a gold award for excellence in graphic design, production, consumer marketing and packaging uniqueness in the 1993 International Paperboard Packaging competition.

CD Cartondruck, printer of high quality fragrance, cosmetic and hair colour cartons, was chosen to produce packs for the global launch of Ultrase/Modif.

A white background sil-



The cartons: six colours with uv varnish plus hot foil blocking

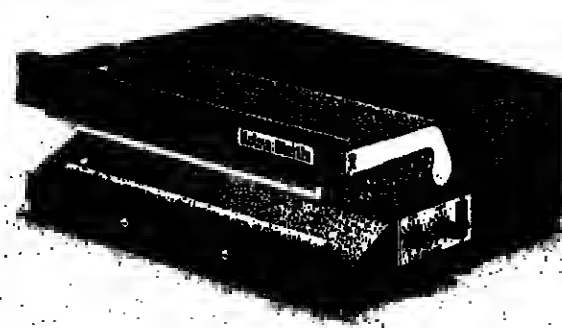
houettes each portrait, framed by a narrow black border. The motif is repeated throughout each panel around the box, while gold stamping crowns the frame on the front panel.

The cartons are printed in six colours with uv varnish plus hot foil blocking on Tako Superfine Art board. A 'CD Super Brilliant' calender varnish was used as a replacement

for uv, says CD Cartondruck (Senfelderstrasse, Postfach 25, 74182 Obersulm, Germany - tel: 010 49 7134 5070, fax: 507200).

Clairol, the leading manufacturer of hair colour in the US is a subsidiary of the pharmaceutical company Bristol-Myers Squibb.

For further information K10 0838 772268



The stainless steel bag sealer developed by Hulme-Martin Ltd

Fresh salmon sealed safely at point of sale

A stainless steel bag sealer for packing fresh salmon at the point of sale has been developed by Hulme-Martin Ltd for Sainsbury, satisfying the highest standards of hygiene and electrical safety.

Hearts stored

The HM2900SS has also, since its development for the food retailer, been adopted by the National Tissue Bank for the

secure transfer and storage in sterile conditions of hearts and other donor organs.

General purpose sealing machines offer no protection against water ingress and corrosion, making it impossible to sterilise equipment without the risk of electric shocks, while this system gives just those benefits, according to the manufacturer.

Shown for the first time at

the PPMA Show by agent Sonrex was the HM3100 semi automatic solenoid operated machine. With a 30cm, 250 micron pe capacity, the machine offers increased efficiency and better sealing performance than other systems, says Hulme-Martin (317 Guildford Road, Biale, Woking, Surrey GU24 9BB - tel: 0483 476767, fax: 486343).

Cutter versions of the 3100 for layflat tubes and 'speed fill' options for small component packing are available in the range which will, from early next year, also include stainless steel waterproof versions.

The benefits of the solenoid machine, which closes the sealing jaws at the touch of a switch, will be clear to anyone who has tried positioning a large pe bag with one hand while applying sealing pressure with the other, says Hulme-Martin.

With low-voltage safety operation and no need for warm-up times, the 3100 is equally suitable for intermittent retail use of repetitive factory production systems.

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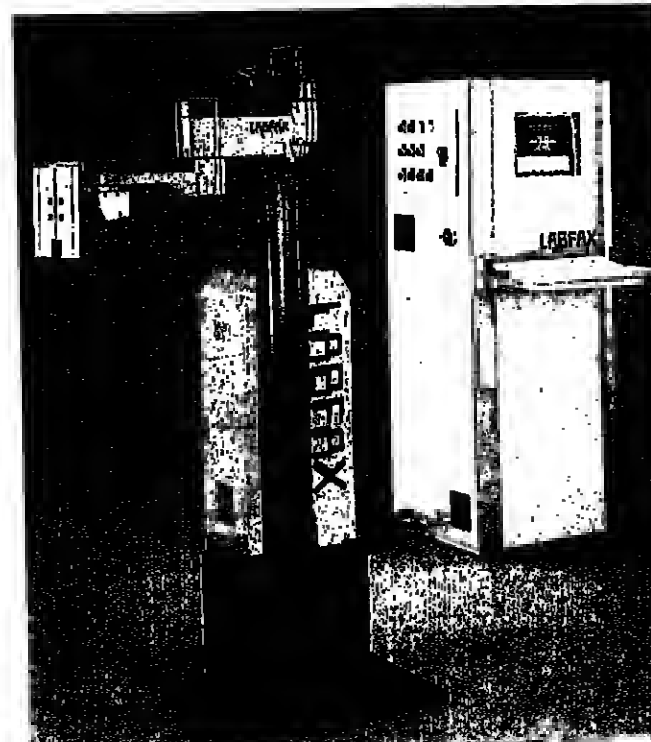
Print and apply software allows pallet labelling standardisation

Software developed by Nestlé is allowing the food manufacturer to standardise its pallet labelling throughout Europe and beyond, with the Labfax Systems RoboPal print and apply unit recommended to its businesses in the UK.

Palman software can be used in conjunction with a robot arm system, which has the advantage for Nestlé of not involving a double movement of the pallet, or conventional applicators. The manufacturer has just installed the Labfax system at its Tisbury coffee factory, the second in the UK. The first was at the Ashbourne factory which mainly handles milk-based desserts.

The software, which generates labels in a standard format, checks data immediately after printing to ensure that it tallies with the source data. Most importantly this information fits in with edi (electronic data interchange) structures, enabling the automatic communication of inventories from site to site.

Palman applies Nestlé's



Palman software can be used together with a robot arm system

own M188 standard, and the system has been specified for the multinational's Zone 1 - Europe - but is already being

considered in areas as far away as South East Asia.

After seeing it working for a year at the first installation,

the company is now satisfied that it is accurate and reliable, says systems development manager Dave Bruce. "The fact it's gone into a coffee factory means there must be a fair amount of confidence about it," he tells PN, explaining that there can be no risk of distribution being interrupted there.

After the label has been applied to each of two sides of the pallet, the head scans it. If there is an error, a second label is generated and applied over the top. If it still fails validation after three attempts, an alarm rings and the label must be applied manually.

Adjustments were made to the initial installation from Labfax, achieving a higher throughput and developing techniques for coping with part pallets.

Labels for RoboPal can be thermal or thermal transfer printed up to 216 x 300mm in size. Labfax is at Unit 12, Hortonwood 7, Telford TF1 4ES - tel: 0952 670380, fax: 677103.

For further information K10 0838 772268

Chill out with pp pot

Tesco is the first user of a 1150ml injection moulded, pp pot with tamper evident lid now available from RPC Containers Blackburn, for its range of chiller cabinet dishes including rice and Chilli Con Carne ready meals.

Tesco has selected the container in particular for its tamper evident properties.

"Tesco is committed to reducing excessive packaging while maintaining the integrity of the products," says Isla McNab, product manager for convenience provisions. "Tam-

per evident seals are a key part of this initiative."

The tamper evident lid is one of the most advanced on the UK market, says RPC (Haslingden Road, Guide, Blackburn, Lancs BB1 2PX - tel: 0254 682298, fax: 583752).

It fits tightly inside the rim of the pot and can only be removed by breaking the special tab moulded into the rim. The tab itself fits flush with the rim, minimising the risk of it being damaged or dislodged.

In addition, says RPC, the design allows more efficient



RPC's 1150ml pp pot with newly developed tamper-evident lid

use of shelf space in retail outlets as the pots can be more neatly stacked closer together.

The 1150ml pot is part of a range of containers now being

introduced by RPC. The 500ml size will soon be available with the new tamper evident lid.

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Centre offers a chance to try out new materials and equipment

A Centre for Processing Plastics Packaging has opened in New Jersey, USA, offering packers and converters the opportunity of trialling new pack/material combinations on an array of processing and forming equipment on a membership basis.

Focus on pet resins

While specialising in a range of polymers including pet, pp, pe and ps, the centre will initially be focusing on pet resins, and particularly apet, which is developing a range of applica-

tions in the UK, executive Mel Druin tells PN.

Services to clients can include processing research, structural analysis, prototypes, development of monolayer and multilayer sheets or films and thermoformed packs. The three founding members of the centre were Shell Chemical on the resin side, Wellex, which contributed a coextrusion sheet line, and Campbells Soup.

Representation in Europe is through John Pope, Marfortec, 3 Hazeldene, Wexham, Bucks HP22 6NG - tel & fax: 0296 696128.

As an example of other work which will be undertaken, Dr Druin cites a multi-client study which will look at the use of post consumer pet bottle scrap in three-layer apet structures, following the first granting of FDA approval for one of these structures.

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K10-428

Cost effective X-ray control of food

Reductions in the cost and size of X-ray inspection systems mean that the technology is now a viable addition to food quality control for an increasing number of companies, says equipment manufacturer Graseby Interrest.

Graseby's CDX is one fifth the size of its original system which the company supplied back in 1989. Apart from size reductions, there have been other improvements, including mechanisms to comply with due diligence, with a capability to customise reporting systems.

Graseby puts great emphasis on careful analysis of where the inspection system can best fit into any given line. "We don't feel that image processing is a substitute for good technique, but we do have the ability

to run our systems at full line speeds with image processing," director Neil King tells *FN*.

Whereas for most applications, standard processing features are enough, Graseby says it can develop an image processing card for specific product requirements. If, on the contrary, a particular job cannot be done, or if other equipment such as a metal detector is more appropriate, the company will make this clear.

Because the standard CDX will monitor product on up to three channels - or eight on



CDX can hold up to 20 product messages

larger units - end users can combine, say, scanning for contaminants on two of these channels with another dedicated

to gauging fill levels. Quite often, says Graseby, variation in product weight or density means that checkweighing is not the solution to checking correct filling.

The CDX can hold up to 20 product messages in its memory, and switching between product need only take around a minute, according to the company (10-11 Vaux Road, Finedon Road Industrial Estate, Wellingborough, Northants NN8 4TG - tel: 0933 440045, fax: 440029). Changeover may be required where pack sizes differ or where, as with confectionery, there are different fillings and sizes of product. Conforming to due diligence requirements is guaranteed.

For further information K10 162 Call for details 0839 772288

Double the action on consumer complaints

Consumer contact has increased considerably with the Packaging Standards Council (PSC), and around double the number of complaint investigations are reported in the latest half year report.

The PSC decided that companies needed to take action on roughly half of the complaints and most have gone on to make improvements to their packaging. For example, Sainsbury's no longer wraps coconuts in plastics film but instead uses a stronger adhesive for its labels, and Schweppes has increased the size of closure opening instructions on its bottles of tomato and orange juice.

The environment/over-packaging category is by far

the largest and within that group the PSC believes that half the complaints are justified. Most complaints related to solid food, which is not surprising since more than two-thirds of all consumer goods packaging is used in this area. Openability was also found to be a 'hot consumer topic'.

Critics have suggested that some of the complaints handled by the PSC may be trivial, but we believe that all consumers are of equal weight and reflect current consumer views, says the PSC (Firth House, Bramfield Road, Bulls Green, Datchworth, Herts SG3 6SA - tel: 0438 798589, fax: 798398).

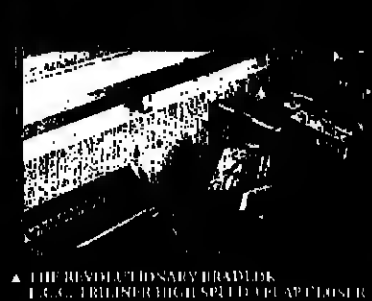
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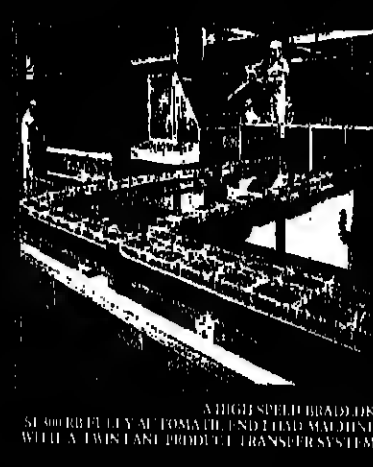
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▲ THE TWIN TUBE BRADLOK 3000 SEMI-AUTOMATIC END LOAD MACHINE WITH A TWIN TUBE PRODUCT TRANSFER SYSTEM

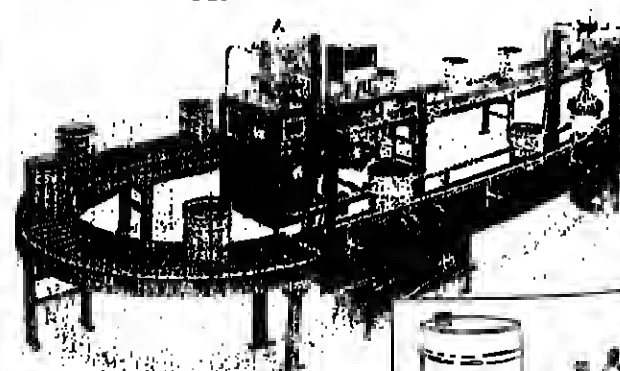
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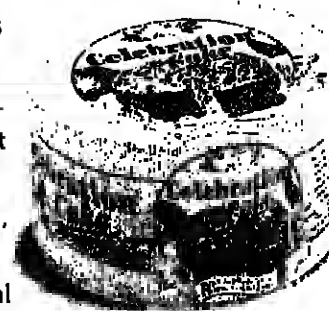
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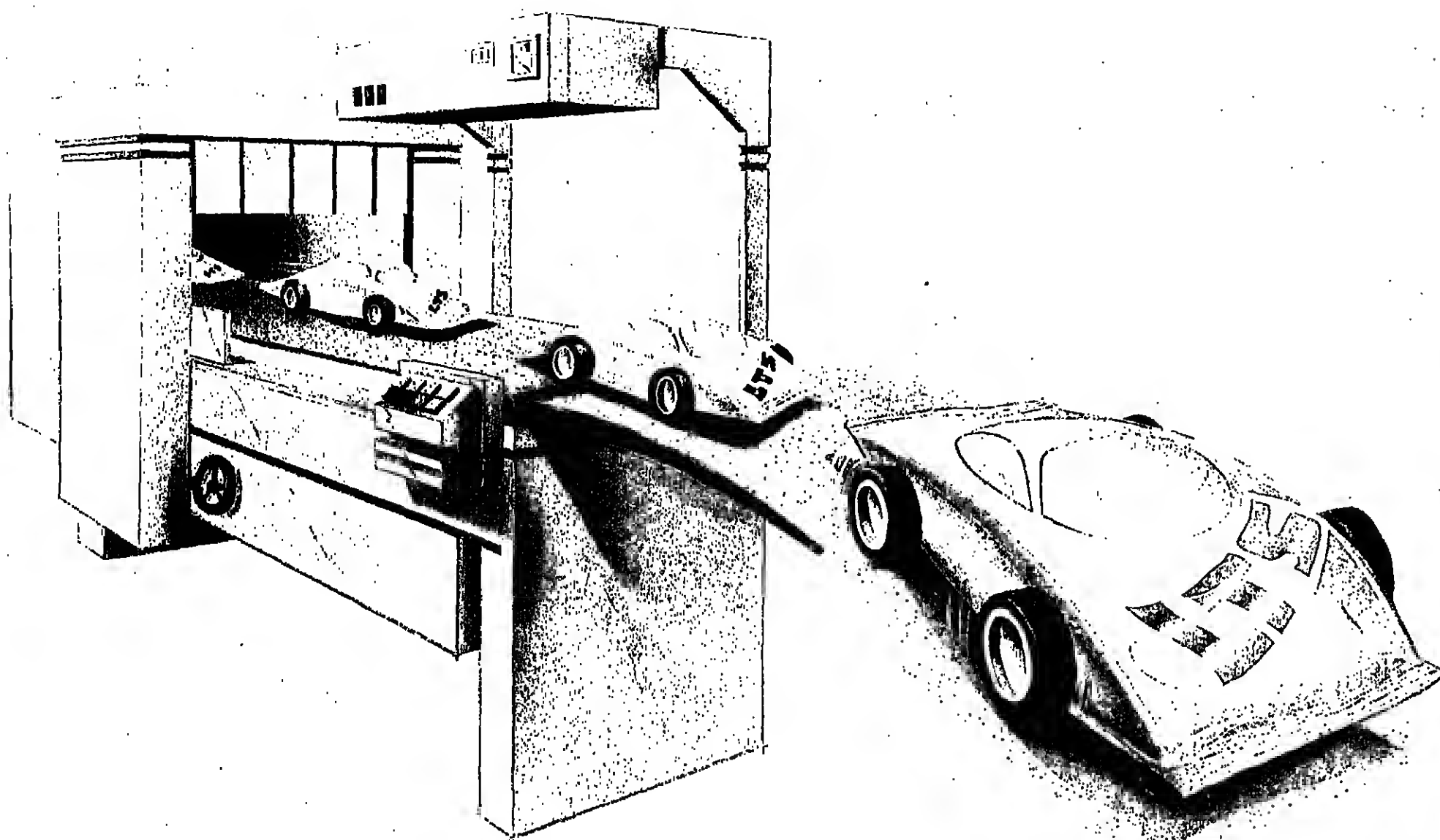
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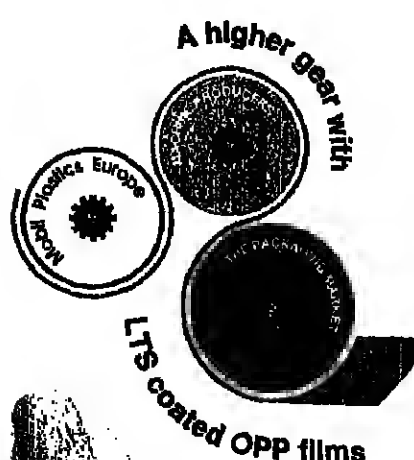
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You can see LTS films in action at the
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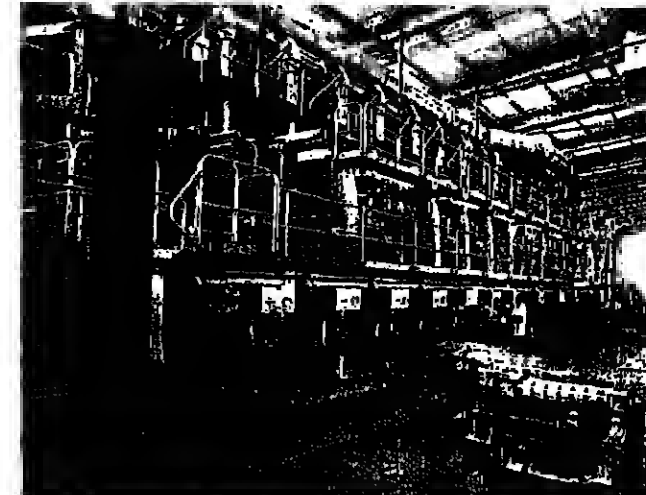


Gravure investment gives fine colour control

A ten colour gravure press installed by Dublin-based Lawson Mardon Superior as part of a \$4 million investment will give the company and customers the benefits of quick changeover between runs, high speed and fine control, including colour consistency.

Capable of running at up to 300m a minute, the Rotomec press offers automatic alignment of print cylinders and automatic positioning of impression rollers. Sleeves can be changed while rollers are on the machine and without the use of tools.

Process control includes automatic axial and longitudinal register control from a single sensing head, viscosity control of inks giving repeat colour consistency and a stationary colour display of the



The ten-station Rotomec gravure press at Lawson Mardon Superior

web for the operator. Maximum web width is 1035mm.

The management information system records makeready time, downtime and produc-

tion time. Printouts give the location on the reel of any product which is out of tolerance, and these accompany the reel on delivery to customers.

Superior supplies Irish, British and other European markets, with export accounting for over 50 per cent of sales. Customers include Mars, Cadbury, Kellogg, Unilever and Nestle.

Mr Alan Marlborough notes the confidence in Superior that this investment demonstrates on the part of Lawson Mardon Packaging (LMP). LMP brings together the packaging businesses of Alusuisse-

Lonza - A-L Packaging - and the Lawson Mardon businesses, acquired by the Swiss group.

Packaging now accounts for 40 per cent of the Alusuisse-Lonza turnover, and is the largest single entity within the group. "We feel we are the largest flexible packaging group in Europe, and soon will be the best," said Alistair Napier, chief operating officer of Lawson Mardon Food Division, at the launch of the press.

The Rotomec press is housed in a 2000sq m dedicated building adjacent to the main factory building (Jamestown Road, Finglas, Dublin 11, Ireland - tel: 010 353 1 8341431, fax: 8347886).

Environmental benefits of the press include recirculated drying air for reduced solvent retention in the product and lower energy demands.

For further information call 0838 772268

Filler handles hot challenge

Automatic hot fill equipment from Masterfil has been installed by Elida Gibbs for its deodorants and anti-perspirants, requiring a complete lack of cross-contamination between these product types.

Responding to increased consumer demand for alternatives to aerosols, Elida Gibbs selected the filler as part of a new line for products including Lynx, Sure, Brut and Denim.

Previously its solid stick production had been on a much smaller scale.

Elida Gibbs says it is very pleased with the system. "The solid stick liquids are hot, viscous and difficult to handle, but Masterfil's system meets the challenge," the company confirms.

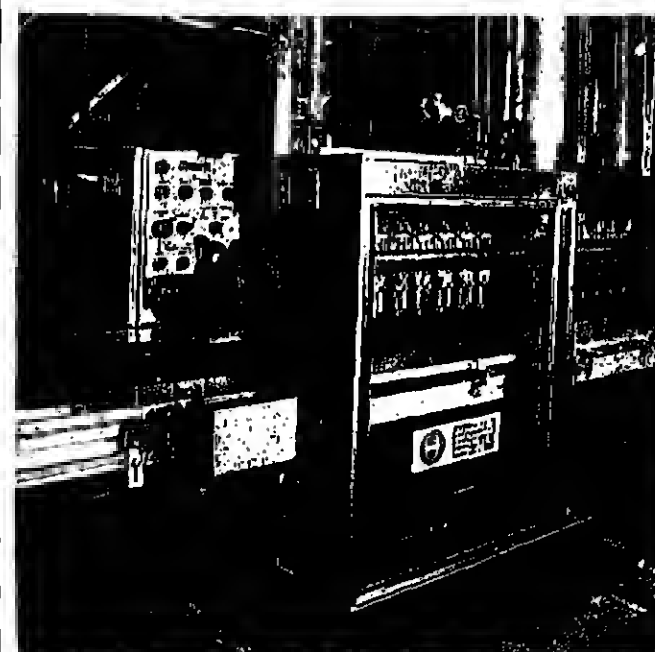
The filler had to cope with three different container shapes and, while guaranteeing no

cross-contamination between alcohol-based deodorants and silicon-based anti-perspirants, keep downtime between products to a minimum.

Half the 16 heads on the specially designed filler are used for anti-perspirants and half for deodorants. The user can opt to use either half or all of the machine at any one time. This system avoids the need for a full scale cleaning process between products, says Masterfil (17 Farmborough Close, Stocklake, Aylesbury, Bucks - tel: 0296 25001, fax: 25002).

Feeding systems differ according to the requirements of the two types of liquid. Deodorant is fed from a mixing tank into a water-heated hopper. From there it is gravity fed into a water-heated manifold and then to the filling heads. Anti-perspirant is fed directly from a portable mixing vat into the heated manifold.

"The segregated filler heads combined with the easy one-touch controls for changing volume and size make product changeovers easier than on any of our other production lines," says Elida Gibbs.



The 16-head automatic filler designed by Masterfil for Elida Gibbs

Enter the Chill Zone

A temperature sensitive film label, developed in conjunction with printing inks company Kromacorp and believed to be the first of its kind in Europe, has been launched by Printpack Europe.

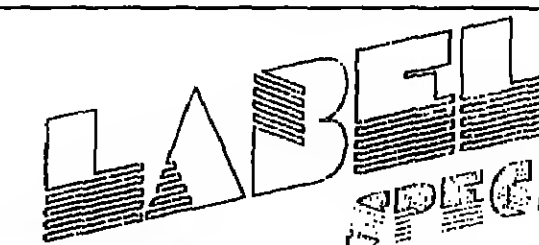
Coca-Cola and Schweppes Beverages (CCSB) has made the first commercial use of the technology with labels for Coca-Cola and Diet Coke in the UK. The special thermochromic film labels are used on various per bottle sizes.

Each label features a 'Chill Zone' panel which is white at room temperature (warm) but reveals the words 'ice cold' in blue lettering, after refrigeration, to indicate that the bottle

is at its optimum drinking temperature. "Coca-Cola is at its best drunk cold," says Tim Kelly, marketing director of CCSB, "and we were very pleased to have found a fun and innovative way of encouraging consumers to store bottles in the fridge."

Production of the labels involved six colour gravure printing onto polypropylene label film with two-stage over lacquering to ensure permanence and protect from scuffing during labelling and transit, says Printpack (Bridge Hall Mills, Bury, Lancs - tel: 061-764 5441, fax: 061-761 7293).

For further information call 0838 772268



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Clear film labelling by UG has increased sales of Foster's Ice beer

Label has icy appeal

Responding to the huge demand for its system of applying clear film labels onto bottles immediately after production, United Glass (UG) has invested in a double stacker and de-stacker on its Larklow site.

Sales of Foster's Ice beer have, above all, exceeded expectations. "The hot summer undoubtedly helped sales of beers in general, but the taste and the attractiveness of the Ice pack are winning over retailers, bar owners and consumers across the country," says Peter Silvester, marketing manager at UG. Sales of Appletise apple and grape soft drinks in one litre bottles have also outstripped initial forecasts.

"Upgraded stacker"

The upgraded stacker - which like the original is from Zeecheeri - handles two rows at a time rather than just one. A Festo pneumatic system channels labelled bottles towards one or the other of the two lanes for stacking. Also at the end of line there is a Cyklop strapper and a shrink hood unit for pallet loads of over 2800 bottles.

Since installing the Shore-

wood labelling machine, supplied through US labels company Spear Inc, UG has increased application rates to 210 bottles a minute and is aiming to reach 250 a minute.

For Foster's the system applies a frost-effect front, back and neck label at different stations. The labels are printed in the US by Spear.

"Silk screen printing"

Alongside the labelling line, UG has installed a silk screen printing operation. This features a four-colour Rosario Strutz printer, which normally turns out bottles at a rate of 110 a minute. At present only the labelling or the silk screen line can run at any one time, but UG does not rule out investing in a second palletising system to make the two lines independent, should demand require this.

The decoration facility, representing an investment of around £1 million for UG (Porters Wood, St Albans, Herts AL3 6NY - tel: 0727 859261, fax: 842661), was first installed in June '94.

For further information K10 159 Call for details 0839 772288

Weigh efficiency for frozen sausage rolls

Ishida Europe's projects department has completed a major installation at Kraft Jacobs Suchard's factory in Bristol for the weighing and packing of frozen sausage rolls.

According to Kraft, the installation has greatly improved production speed and packing efficiency.

Central to the operation is Ishida's CCW.Z.214W/1730-WP multiload weigher linked to a Sandilac TCG12 bagmaker.

As well as supplying the weigher, Ishida has supervised the installation of a flighted belt conveyor which takes the product - following manufac-

ture and freezing - to the weigher, an electromagnetic crosshead feeder with infeed hopper and level probe to regulate the flow of product onto

"Remote control panel"

the weigher, a custom designed support gantry, and an electrical remote control panel for control of the entire operation.

The line is situated in a separate temperature controlled room, to ensure that

low temperatures are maintained while the frozen sausage rolls are being packed. In addition, an extra enclosure is fitted around the top of the weigher platform into which cold air is continually fed.

The weigher handles a variety of sausage rolls, including cocktail, party and king size, and features a twin timing hopper to maximise packaging speeds, says Ishida (Crystal Drive, Smethwick, Warley, W Midlands B66 1RJ - tel: 021-541 1441, fax: 021-544 4659).

As some packs are sold by the number of sausage rolls, the unit also features a special

counting programme.

The weigher is programmed with the piece weight of an individual sausage roll, with an allowed tolerance either side.

This information is then used to work out the target weight for the required number of products for a particular pack.

"Type of sausage roll"

Set up - to indicate the type of sausage roll to be packed and number required in each bag - is via the remote control unit.

Kraft says that it explored the options very thoroughly when establishing the new packaging line and the weigher has performed superbly, and has also proved extremely reliable.

For further information K10 159 Call for details 0839 772288

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'Free tree' label leaflet promotion

On-pack Fix-a-Firm leaflet labels from Denny Bros Printing Ltd have been used in a 'free tree' promotion by Benckiser, manufacturers of Calgon water softening agents.

The campaign not only offers free mountain ash trees for users' gardens, but also generates a £1 donation from Benckiser to the Woodland Trust for every tree claimed.

The six-page leaflet labels are four-colour printed and, together with detailed text, feature an illustration of the 75cm high Mountain Ash sapling. This is despatched to the consumer in a specially designed tree protector, with easy to follow planting instructions.

Devised by sales promotion agency Anvil, the promotion reflects Calgon's 'green' image. Vanessa Togher, senior account manager at Anvil, says "We needed to provide full on-pack details of the offer as well as information about The Woodland Trust. It was also necessary to turn the promotion round more quickly than pack origination would have allowed."

The 73 x 38mm Fix-a-Firm labels were supplied by Denny Bros (Mildenhall Road, Bury St Edmunds, Suffolk - tel: 0284 701381, fax: 705575), on the reel for hand application to 500g and 1.2kg packs of Calgon.

For further information K10 159 Call for details 0839 772288



Fix-a-Firm leaflet labels used in the Benckiser 'free tree' promotion



A System 1200 wraparound casepacker was supplied to Gillette (UK)

Razor infeed gives sharper changes

An infeed system that provides positive handling of flow wrapped disposable razors while at the same time allowing quick changes between collation formats has been developed by Assi Domán Packaging Machine Systems Ltd and supplied with a System 1200 wraparound casepacker to Gillette (UK) at Isleworth.

The system is believed to be the only one of its type and can handle collations of 5 x 4 x 1, as well as 5 x 4 x 3. It maintains full control of the product throughout the infeed operation and, says Assi Domán, can be used for other flexible primary packs, in various collations, that require loading into corrugated transit cases.

Individual flow wraps arriving on the infeed conveyor, in a single line, are transferred through 90deg and assembled into a single row collation 5 x 4 deep via an indexing lowerator. These are

then pushed forward into a cassette which, once loaded with the 5 x 4 collation, indexes sideways one pitch.

At this point the product is transferred via a mechanically driven product infeed paddle from the cassette to the waiting corrugated blank. This process is continuous, with the cassette assembly indexing one pitch at a time and returning progressively via a chain drive to the product loading point.

In this way, there is an opportunity to vary the number of rows from one to two, three or more depending upon requirements, and product is controlled positively throughout the operation, says the company (Knowle Street, Stalybridge, Cheshire SK15 3AR - tel: 061-338 3711, fax: 061-303 2647).

For further information K10 159 Call for details 0839 772288

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1-5 October

Typopack

International graphic arts and packaging exhibition. Theatrical, London, 10-11 October, PO Box 19025, Athens 117 10, Greece - tel: 30 201 0016

3-7 October

Europlast 94

International plastics and rubber exhibition. Fair, Nord Exhibition Centre, Miele, Jackson or Catherine Chitlock, Promotions, The Colonades, B2, Bishop's Road, London W2 6BT - tel: 071-221 3660, fax: 792 3525

4-5 October

Landfill Restoration & Aftercare

Training Course, Circular, The Training Department, IWM Business Services Ltd, 9 Savoy Court, St Peter's Gardens, Southampton, RH1 1SX - tel: 0604 20426, fax: 604467

4-5 October

Polypropylene '94

Conference, Swissotel, Zurich, Switzerland. Maack Business Services, Morgentalstrasse 14, 8904 Auhof, Zurich, Switzerland - tel: 010 41 1 781 30 40, fax: 781 15 69

5-9 October

Interpack/Interprint

International exhibition for the food processing and packaging industries. Jakarta, Indonesia. Reed Exhibitions - tel: 081-940 3777

10-13 October

Ispack

International packaging exhibition. Tel Aviv, Israel. Israel Trade Fairs Center, PO Box 21075, 61210 Tel Aviv, Israel - tel: 972 3 646 2422

11-14 October

Gudebrunspack

International packaging and materials handling trade exhibition. Budapest, Hungary. Hungexpo Budapest, PO Box 44, H-1441 Budapest, Hungary - tel: 36 1 57 3555

11-14 October

Printing and Equipment Show

Exhibition, Olympia, EMAP Trenton, 840 Brighton Road, Purley, Surrey CR8 2BH - tel: 081-660 8008

11-15 October

Scenpack '94

Scandinavian Show, Gothenburg, Sweden. Svenska Messan, The Swedish Exhibition & Congress Centre, Box 5222, 40224 Gothenburg, Sweden - tel: 010 31 109 100, fax: 160 330

11-15 October

MEBA

Trade fair for metal processing, Leipzig, Germany. IFA in Germany, P.O. Box 142, Rochow, P.O. Box 7101 - tel: 0374 824092

12-14 October

Intelligent tagging and merchandise

Conference, Mount Royal Hotel, London. Pat Clark, RMDP Ltd, The Hideaway, Furze Hill, Hove, East Sussex BN3 1PA - tel: 0273 722687, fax: 821463

12-14 October

Luxury Packagings - Design Trends and Materials

International conference and exhibition, Munich. Verpakungs Rundschau, Susanne Heil, Congress Department, Industriest. 2, D-61150 Hestendamm, tel: (0)1104/606-310, fax: 606-323

12-15 October

Recycle '94

European trade fair for recycling technology and recyclable products, Stuttgart. Eike Kuehl, German Chamber of Industry and Commerce, 16 Kuehlstrasse, London SW1E 6LB - tel: 071-233 5956, fax: 7835

12-15 October

LPES - The National Print Production Event

Exhibition, Olympia, Emap Trenton International Events Ltd, Beech House, 840 Brighton Road, Purley, Surrey CR8 2BH - tel: 081-660 8008, fax: 081-660 8243

12-18 October

PPP China

International trade fair for packaging, printing and paper, Tianjin, China. Tianjin World Economy Trade and Exhibition Centre, 32 You Yi Road, Hei District, Tianjin 30061, China - tel: 86 22 342 222

14-19 October

Interfood Shanghai

International exhibition for food processing and packaging equipment, Shanghai, China. Shanghai International Trade Information, 817-837 Dong Da Ming Road, Shanghai, China - tel: 86 21 546 3810

18-20 October

Foodtech '94

Exhibition of equipment and services to improve food hygiene, safety and quality, The New Exhibition Hall, The National Agricultural Centre, Stoneleigh, Warwick, CV8 9NF - tel: 01927 551111, fax: 551112

DIARY

10-11 October, Wembley, London. World Exhibitions, PO Box 77, Wembley, London HA9 9AT - tel: 0275 464422, fax: 464491

19 October

Adhesives in packaging and converting - environmental issues

Seminar, Garsick, Sme Walls, Pira International - tel: 0372 376161

19-20 October

Pahax & Process Ireland

Ireland's national packaging and process exhibition, The National Exhibition Centre - The Point Dublin, McCann McGowan Presentations, Greenmount House, Harold's Cross Road, Dublin 6W, Ireland - tel: +4532/497/4532/493, fax: 4544179

19-20 October

Packaging Specifications

Course, Leatherhead. Pira International - 1072 376161, fax: 377526

24-25 October

Specialty Plastics '94

Conference, Swissotel, Zurich, Switzerland. Maack Business Services, Morgentalstrasse 14, 8904 Auhof, Zurich, Switzerland - tel: 010 41 1 781 30 40, fax: 781 15 69

24-29 October

Die

International exhibition of machinery and process technology for the food and beverage industries, Paris, France - tel: 33 1 4268 0619

27 October

Packaging Logistics

Conference geared to storage, handling and distribution, Loughborough. The Institute of Packaging - tel: 0664 500055, fax: 64164

31-4 October/November

International packaging machinery, equipment, materials and printing trade fair

Minsk, Belarus. Minskexpo, Masharova Prospekt, Minsk 2206 00, Belarus - tel: 7 017 2 69084

1-3 November

Scan-Tech

Automatic identification exhibition, Chicago. AIM USA, 634 Alpha Olive, Pittsburgh, PA 15238, USA - tel: 1 412 963 8588

3-8 November

IEPP

International exhibition for food processors, Los Angeles. Food Processing Machinery and Supplies Association, 200 Danglehead Road, Alexandria, VA 22314-2800, USA - tel: 703 681 1069

9-10 November

Northern Packaging Plus

Exhibition, LCC Old Trafford, Manchester. AES Events, 31 Brighton Road, South Croydon, Surrey CR2 6EB - tel: 081-681 6699, fax: 5511

9-18 November

Logistics '94

International trade show on materials flow control, Utrecht. Royal Dutch Fairs, PO Box 8500, 3503 RM Utrecht-Holland - tel: +000 955 911, or Overseas Trade Show Agencies - tel: 071-486 1951

11-15 November

ChinaPlex

International exhibition on the plastics and rubber industries, Beijing, China. Adzale Exhibition Services, 21/11 Tung Wai Commercial Building, 103-111 Gloucester Road, Wanchai, Hong Kong - tel: 852 511 0511

13-17 November

Pack Expo

International packaging exhibition with conference, Chicago. PMMI, 1343 L Street NW, 20005 Washington DC, US - tel: 1 202 347 3838

14-19 November

Salon de l'Emballage

International packaging exhibition, Paris. Nord Exhibition Centre, Paris. SEPC, 17 Rue d'Uzes, F-75002 Paris, France - tel: 33 1 4038 1529, or 071-221 3660

15-17 November

Scan-Tech Expo Europe '94

Exhibition and conference, automated data collection systems, Paris. Advantstar Exhibitions, Advantstar House, Park West, Sealand Road, Chester CH1 4RN - tel: 0244 378888, fax: 0244 370011

15-19 November

Die and Mould Asia

Asian International die and mould exhibition, Singapore. Singapore Exhibition Services, 11 Onay Ghau, 15-08 Cathay Building, Singapore - tel: 65 338 4747

21-22 November

3rd European congress on packaging and the environment

Brussels Exhibition Centre. IBGE, Gulledelle, 100-8 1200 Brussels, Belgium. tel: 32 (0)2775 75 75, fax: 32 (0)2775 76 11

21-22 November

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15-19 November

Die and Mould Asia

Asian International die and mould exhibition, Singapore. Singapore Exhibition Services, 11 Onay Ghau, 15-08 Cathay Building, Singapore - tel: 65 338 4747

21-22 November

3rd European congress on packaging and the environment

Brussels Exhibition Centre. IBGE, Gulledelle, 100-8 1200 Brussels, Belgium. tel: 32 (0)2775 75 75, fax: 32 (0)2775 76 11

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Exhibition and conference, automated data collection systems, Paris. Advantstar Exhibitions, Advantstar House, Park West, Sealand Road, Chester CH1 4RN - tel: 0244 378888, fax: 0244 370011

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Bestseller takes Best in Metal award

Marks & Spencer and Trebor Bassett clinched the top award for a Liquorice Allsorts tin with a bulged emboss "never before achieved to this extent" in the tenth annual Best in Metal Awards.

The distinctive tin, which won the gold award in the promotional food category, received the unanimous support of the judging panel to take the Supreme Gold Award - the best of the ten gold winners.

Designed by Marks & Spencer and Trebor Bassett, and manufactured by Carnaud-Metalbox Speciality Packaging UK/USA, the tin's bulged emboss is used to full effect in creating the shapes and colours of Liquorice Allsorts.

The tin became a bestseller over the Christmas period.

Organised by the Metal Packaging Manufacturers Association (MPMA), the Best in Metal Awards celebrated its tenth anniversary this year by attracting over 100 entries.

The Chairman's Award for the entry which demonstrates the best new market for metal packaging was won by Thomas Townsend and designers, Eiger International for their innovative approach to the sale of sporting headgear. Selected for the award by



Winner of the Chairman's award were these Hat Tins. Customer: Thomas Townsend (1778) Ltd; Designer: Eiger International; Manufacturer: O Wallin and Company, tel: 0803 403 901

MPMA chairman, Bev Page, the range was so successful that it was later extended to include the company's range of high quality cloth caps.

The hat tins were manufactured by G Wallin and Co.

The award ceremony last month included a look back at highlights of the last ten years. MPMA is at Elm House, 10 Elmshott Lane, Cippenham, Slough, Berks SL1 5QS - tel: 0628 605203, fax: 665597.

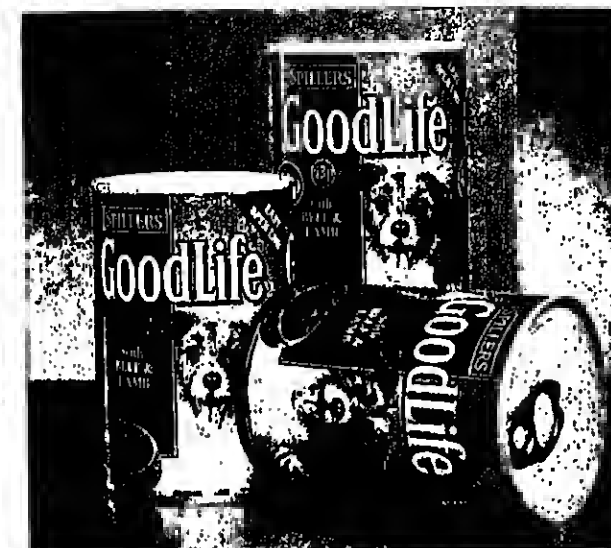
For further information call 0839 772268



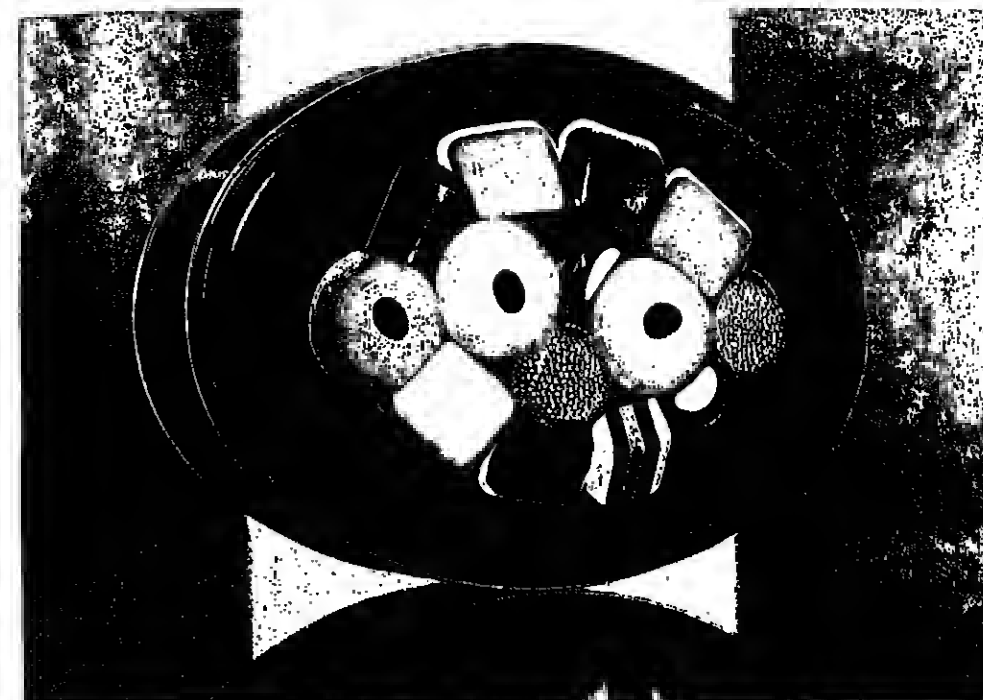
Gold winner Top Cat Body Filler; Designer and Customer: Tetrasyl Ltd; Manufacturer: DKS Packaging Ltd, tel: 051-822 2856



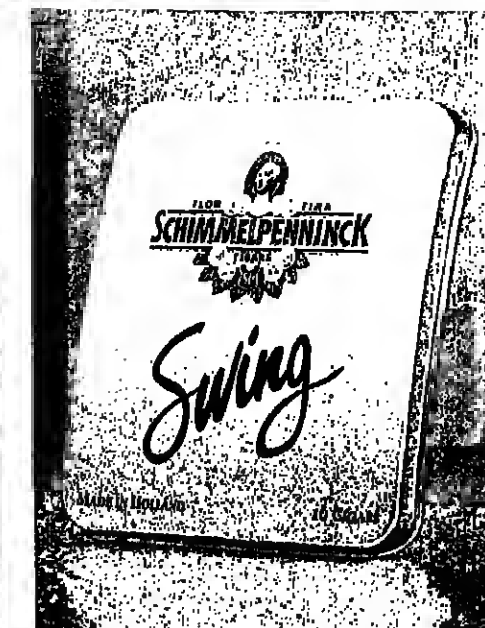
Gold winner Sainsbury's Cool Crush range; Designer: Davies Hall; Manufacturer: CarnaudMetalbox Bevan plc, tel: 0226 81200



Gold winner GoodLife; Customer/Designer: Delgaty Spillers Foods; Manufacturer: Carnaud Metalbox plc, Foodcan Group, tel: 0805 762222



Supreme Gold was captured by this Liquorice Allsorts Tin. Customer/Designer: Marks & Spencer plc and Trebor Bassett Ltd; Manufacturer: CarnaudMetalbox Speciality Packaging UK/USA, tel: 0623 22851



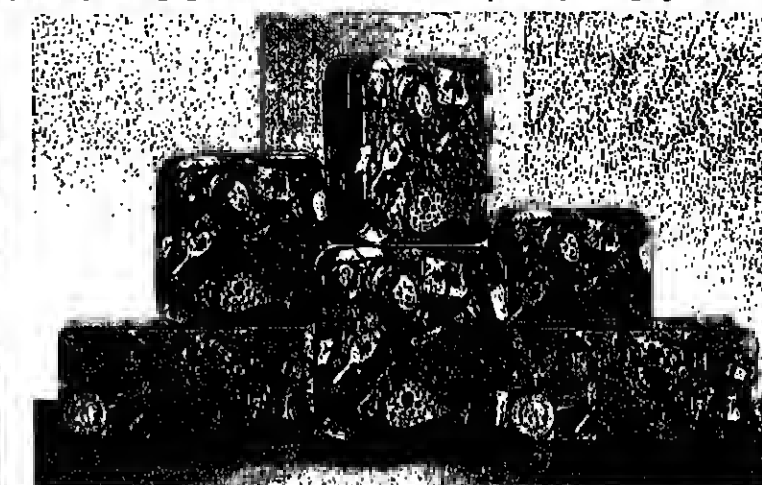
Gold winner in the Promotional section: Original Swing Tin for Cigars. Customer and Designer: Rothmans International; Manufacturer: CarnaudMetalbox Speciality Packaging UK/USA, tel: 0623 22851



Gold winner in the aerosols section: XZ Aerosols. Customer and Designer: Barmar Ltd (Finland); Manufacturer: CarnaudMetalbox Aerosols (UK) plc, tel: 0623 555555



Gold winner Chrystax Polish. Customer/designer: Blue Coral; Manufacturer: Lewson Mardon, tel: 0623 512012



A gold went to these Memory Tins. Customer and Designer: The Silver Cross Company; Manufacturer: Linpac Metal Packaging, Reading, tel: 0753 441144



Gold in closures section: Martini Mixers; Customer and Designer: Martini & Rossi; Manufacturer: MCB Closures Ltd, 021-553 2900

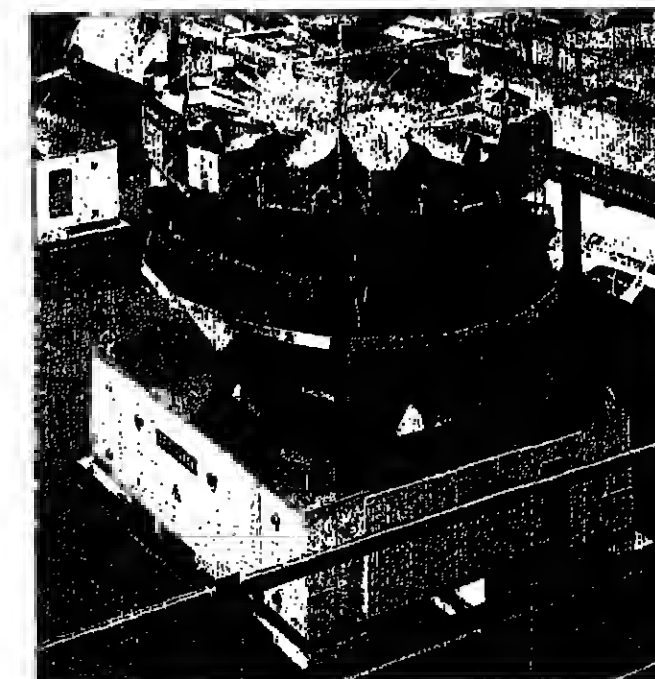
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NEWS

Foreign body inspection system

A foreign body inspection system which is designed for continuous in-line operation in hostile environments has been launched by Safeline Ltd.

Called Linescan, it can detect stone, glass, unwanted bone content, paper, plastics, metal and other foreign bodies in food and non-food products alike, with particulates down to 0.5mm identified.

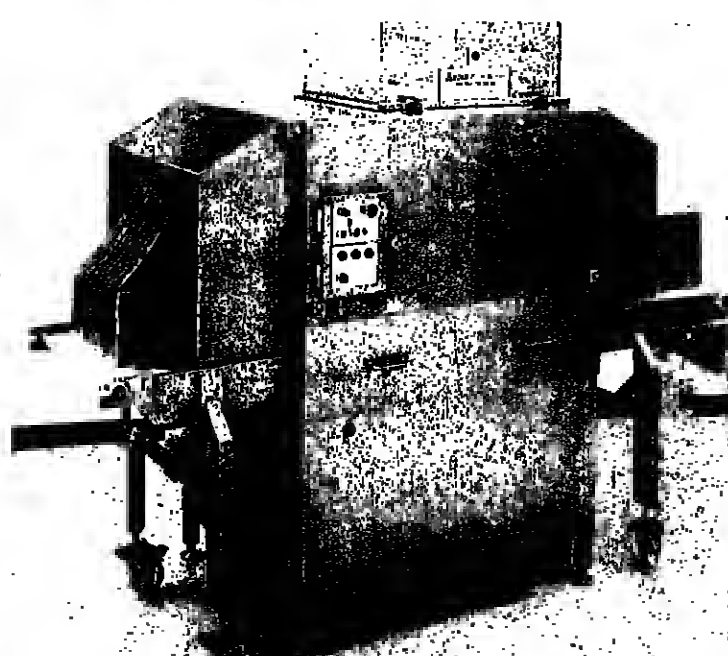
Products can be inspected either unpacked or packed and ready for shipment. Packaged goods may be monitored by the case, rather than individually, making overall installation costs very competitive, says the company (Montford Street, Salford M5 2SN - tel: 061-848 8636, fax: 061-848 8595).

Safeline has worked with US electronics company EG & G to adapt imaging technology originally developed for

aerospace. This has been matched with equipment derived from an X-ray research programme. According to Safeline, this combination gives unprecedented levels of accuracy and reliability in detection and rejection of contaminated food and dairy products.

As well as being able to detect foreign bodies in products of varying thicknesses, such as chicken breasts, Linescan will also detect unacceptable voids such as hollow heart disease in potatoes.

Four machines comprise the range and all systems can be supplied with custom designed rejection devices.



For further information K10-136 Call for details 0839 772266

The Linescan foreign body detector from Safeline Ltd

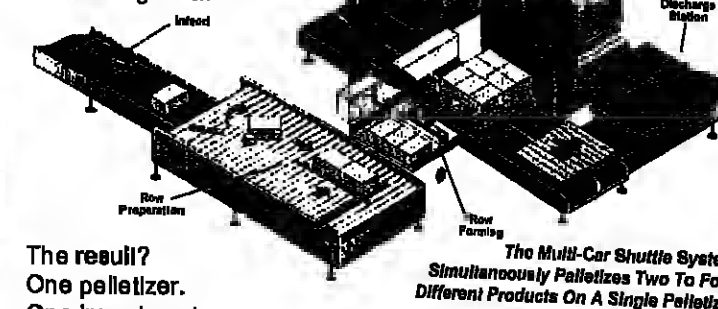
KLOCKNER PACKAGING SOLUTION #3145

The Case For Automatic Palletizing of Multiple Lines.

Justifying the transition from manual to automatic palletizing of multiple low speed lines has always been a challenge. While automatic palletizing offers many advantages, the cost justification of individual palletizers for each line is typically an expense greater than the potential benefit.

To meet this challenge, Klockner Priority One developed the Multi-Car Shuttle System - able to palletize up to four individual lines with a single palletizer, requiring only 1 1/2 layers of accumulation for each line.

The system works on-demand, accepting products from up to four sources and staging these products prior to advancing individual product groups to the row forming area. Rows are formed individually for each product and the shuttle car moves the corresponding pallet into position. Simultaneously, a new row is formed for the next product, and the shuttle car transfers the appropriate pallet to the loading area.



The result? One palletizer. One investment.

Multiple benefits! And the flexible Klockner Priority One palletizer provides automatic change-over, low maintenance and the capability of unattended operation as primary benefits.

Klockner Priority One makes a strong case for multiple line palletizing from a single palletizer. Put one of these innovative new systems to work in your plant by contacting Klockner Haniel U.K. at 0733-60911, ask for Ian Hart.

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Meeting a demand for hygiene training

ADAS, a commercial agency of MAFF, is to run a further hygiene training course for packaging industry managers in March next year, following great demand for last month's event.

Designed to offer managers in the packaging industry the opportunity to receive comprehensive training on food safety, the course will be a four-day event which includes taking hygiene examinations.

"The success of the previous courses and demand from companies for a quick repeat has led to the introduction of this new date," says Ian Grey, business development manager at ADAS (ADAS Pennrh.

Agriicola House, Giltwilly Trading Estate, Penrith, Cumbria CA11 9BU - tel: 0768 65651, fax: 0991421.

"It gives companies an ideal opportunity to develop the hygiene expertise necessary to take control of their hygiene management and deliver the standards expected by the food industry," says Mr Grey.

ADAS launched its Hygiene Accreditation for the packaging industry in 1991 and is now recognised by many food retailers and manufacturers as the standard to be accepted for packaging supply.

For further information K10-136 Call for details 0839 772266

Sophisticated carriers



These carrier bags are manufactured to look like a 'fashionable' paper bag handled version, but instead provide the properties of polyethylene. Now available from Ideal Sources & Sales Ltd (John Marshall House, 248-254 High Street, Sutton, Surrey SM1 1PA - tel: 081-770 1246, fax: 081-770 2125), the bags are made from Poly80S material, which is a blend of ldp and hdpe, and are water and leakproof. Bags can be supplied in runs as small as 5000, printed with customer logos, for a cost said to be not much more than a patch handle carrier.

For further information K10-131 Call for details 0839 772266

PACKAGING NEWS/OCTOBER 1994

NEWS

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Bottle produced in record time

Rockware Glass has produced a special Diamond White promotional bottle for Taunton Cider in just four and a half weeks, a record time said to be a result of a partnership philosophy built up between the two companies.

The project represents the most rapid development turnaround time that the Sonerset-based cider maker has ever received from a UK glass packaging company.

"Partnership approach has lasted for two years"

Rockware currently produces bottles for Taunton's Diamond White, Dry Blackthorn, Brody and Fres brands and the partnership approach has been in operation for two years.

It involves creating a team approach between various departments at each company such as customer services, production and quality control. As well as setting up this style of working, Rockware has also invested in a furnace rebuild at its Headlands plant, together with the installation of a 10 section triple gob machine.

It is this investment combined with the flexibility of working practices that enabled us to move quickly and produce a 330ml bottle for Taunton's Diamond White special volume promotion, says Rockware (Headlands House, Headlands Lane, Knottingley, W Yorks WF11 0HP - tel: 0977 674111, fax: 607256).

The aim of the promotion

Diamond White promotional bottle (left) and (right) the standard 275ml bottle

was to add perceived value to Diamond White and improve visibility in a crowded market. Although the normal turnaround time for such a glass bottle is between 12 and 14 weeks, Rockware produced the promotional bottle in just four and a half weeks.

"To gain advantage in the cider market, especially with a high volume promotion like this, speed is of the essence," says Bob Rendall, purchasing manager at Taunton. "In addition, the line efficiency achieved with the 330ml bottle was one of the highest ever reached at Taunton, which is testament to the first class quality of the containers."

"A supplier's flexibility to respond is important."

Mr Rendall believes that a packaging supplier's flexibility to respond to a client's requirements is increasingly important in today's business environment, where sales figures, and therefore packaging requirements, can often fluctuate widely.

"Rockware's bottle for the Diamond White promotion is a perfect example of meeting these requirements," he says. "The company has also produced own brand one litre bottles at very short notice and there are several other projects on target for fast tracking."

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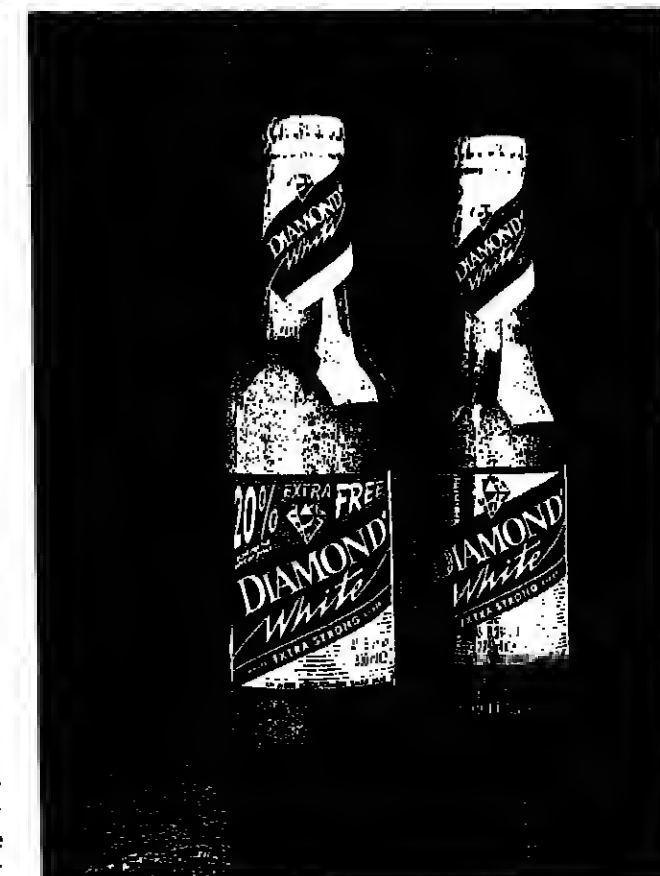
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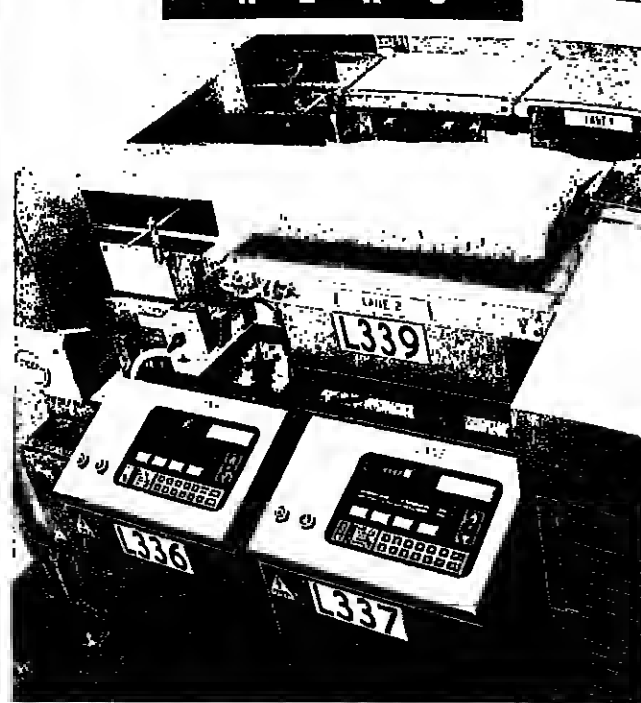
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NEWS



Loma twin lane 7000 Combo inspection system at Marlow Foods

Quorn checked and scanned at speed

Checkweighing and metal detection equipment to run on the extended production facility for Marlow Foods' Quorn product is being installed by Loma Systems.

A Loma 7000 Combo, integrating metal detection and checkweighing, has already been installed on the first line to be commissioned at the Stokesley, N Yorkshire, plant.

The first Loma unit is a twin lane system designed for maximum flexibility and sensitivity. It will handle a wide range of pack sizes, both for retail and catering customers.

Positioned immediately after the bagging station where variable quantities of frozen Quorn cubes are packed into polybags, the Combo uses one conveyor to check packs of between 0.5 and 2kg. The second takes packs of between 2 and 10kg.

Each lane combines a metal detector and weigh cell on a common, easily adjustable frame. The lane for lower weights runs at speeds of up to 65 packs a minute and the second lane at just three a minute. Product identified as over-

weight or contaminated is pushed from the line by a reject device on the outfeed conveyor, says Loma (Southwood, Farnborough, Hants GU14 0NY - tel: 0252 540340, fax: 513322).

"The Loma 7000 Combo allows us to assure our customers that our products have been tested to the highest standard and meet legal weight requirements," says Keith Bramwell, plant manager at Marlow Foods. Its high speeds, reliability and ease of use are key advantages, he says.

The first line will enable Marlow to build up its annual production capacity from 1,000 tonnes to 7000 tonnes. Another 7000 Combo will be installed on a second line which will double this capacity.

Components on each lane will be tailored to the characteristics of product within each weight band. "The twin lane system gives us the convenience of handling all our product sizes on one line without compromising accuracy," explains Mr Bramwell.

For further information call 0410 0839 772268



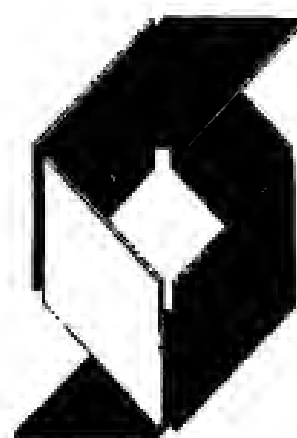
Redesign adds vitality

Striking reformation of brand identity has been achieved for Vitalite outflower spreads by Pt Design, fully using the depth of the tub. Packs for Kraft Jacobs Suchard's Vitalite and Vitalite Light spreads have been redesigned to give maximum shelf stand-out, more modernity and - as the brand name suggests - vitality to the product's identity. At the same time, key features of the brand have been maintained, says Pt (1-5 Colville Mews, Lonsdale Road, London W11 2AR - tel: 071-727 3226, fax: 071-727 4831).

The consultancy beat two major competitors in a pitch for the redesign, which carries the same bold colours on the tub wall and lid.

For further information call 0410 0839 772268

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packaging update

August 1994

£3 billion buying power at packaging focus '94

The combined annual purchasing power of delegates attending packaging focus '94 will exceed £3 billion, more than a third of total UK sales.

This figure emerges from research carried out by the organisers, Richmond Events, into the business profiles and interests of delegates planning to attend the event, which is being held on board the P&O ship, Sea Princess, from September 22-25.

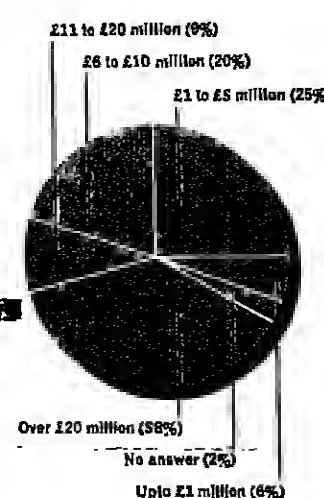
The research shows that the annual average expenditure on packaging of delegate companies amounts to at least £12 million. Nearly half have a total annual spend of more than £10 million, including 38 per cent with an expenditure of more than £20 million.

Breaking down spending patterns for specific packaging materials produced further interesting data:

- 57 per cent of respondents come from organisations spending more than £1 million a year on cartons and cases;
- 43 per cent spend more than £1 million on laminates, films and foils;
- 33 per cent spend the same amount on paper and board.

A smaller percentage, however, spent more than £1 million on cans, metal caps, closures, glass and rigid plastic containers.

Total annual expenditure on packaging



What delegates are looking for

As part of its extensive study into delegate opinion, Richmond Events also carried out direct research over the telephone. In general, this confirmed the findings of the main survey, but it also showed the range of reasons why delegates attach so much importance to the event. Here is just a selection:

- "We're looking for innovative ideas, to see what's being won in new fields."
- "We're bringing a new product, yet to be launched, and we want ideas on how to package it."
- "We'd like to see potential new suppliers in case we're missing opportunities or new ideas."
- "We'd like to meet suppliers who can deal with us on a nationwide basis."
- "It is a chance to network with other packaging buyers, an opportunity not normally possible across different companies and sectors."
- "We are launching a new range of products in the 1st autumn and we would like to meet new suppliers who can offer innovation in their packaging."
- "In our sector, we are a leader in packaging innovation and we want to look at materials other than metals and plastics."
- "We are considering sourcing all our European packaging in the UK."

The sample included key buyers from food and drinks companies - two-thirds of total packaging consumption - and manufacturers of confectionery, cosmetics, pharmaceuticals, toiletries and household chemicals.

Significantly, two-thirds of the buyers surveyed expected to see a decrease in the number of packaging suppliers they deal with over the next year. Nearly half of them come from organisations with annual packaging expenditures exceeding £20 million.

The main appeal of packaging focus '94 for delegates is two-fold, the survey indicated. For nearly all, it was an opportunity to keep up-to-date with industry developments, but 80 per cent of respondents also said it was a chance to investigate potential future suppliers.

Given that half the respondents indicated they were not able to see more than ten potential suppliers each year, the event offers a time-efficient means of reviewing new developments and identifying new suppliers.

Interestingly, the opportunity to meet other delegates is another central appeal



Research - The Key Findings

Total estimated buying power of delegates - more than £3 billion a year.

Total annual UK packaging expenditure - £8.5 billion (Rowena Mills Associates).

Nearly 60 per cent of respondents come from organisations spending more than £10 million a year on packaging.

80 per cent of delegates see packaging focus '94 as an opportunity to see potential suppliers.

The main issues of concern are innovation and technological developments, and packaging price trends.

of the event. It offers delegates a unique environment in which to build relationships and debate industry issues - and there are several that delegates want to discuss.

The research identified two main concerns - innovation and technological developments, and packaging price trends. But it also flagged up the environmental issue and consumer attitudes as subjects of interest. All these have now been built into the conference and workshop programme.

Exhibitor support grows

Support from exhibitor companies for packaging focus '94 continues to grow. CarnaudMetalbox and Lawson Mardon are two of the most recent suppliers to confirm their participation, welcoming the event as a novel and effective way of presenting new ideas to the market.

Francisco Serrano, Marketing Manager of CarnaudMetalbox said: "It is our objective to focus on packaging innovation and present new concepts to companies looking for new packaging ideas. The event gives us the opportunity to hold meetings with dozens of existing and new customers over a cost-effective period of time."

From one of the two Lawson Mardon divisions attending, John Stott, Sales & Marketing Manager, Plastics also commented "packaging focus '94 provides a good opportunity to meet and discuss the future direction of the industry with influential and knowledgeable experts and Lawson Mardon Plastics is particularly looking forward to hearing their views."

For Van Mierlo Proost another new exhibitor, packaging focus '94 is an opportunity for a European company to

break into new ground. "I see it as an ideal platform to introduce ourselves to 'blue chip' companies with a view to working in partnership for the future," said Chris Askwith, UK Sales Manager.

At Turgate Forms & Labels, Ray Turgate, Managing Director, saw packaging focus '94 as a 'must'. "We're delighted to be there because it gives us a unique opportunity to introduce the web, flexible packaging and labels to major end-users."

Exhibitor companies who have confirmed to date include: CarnaudMetalbox Foodcan; CarnaudMetalbox Specialty Packaging; DataColour; Fuji Saal Europe; ICI Films; Mellinex Group; Lawson Mardon; Fibrenyle; Lawson Mardon Plastics; Pira International; PP Payne; The Institute of Packaging; Van Mierlo Proost; Walmsay

Conference details

Leading industry figures have been involved in the extensive and well-researched conference programme from the outset. For a round-up of the agenda and all the topics to be debated in the conference and workshop sessions, please turn to the centre pages.

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The conference programme

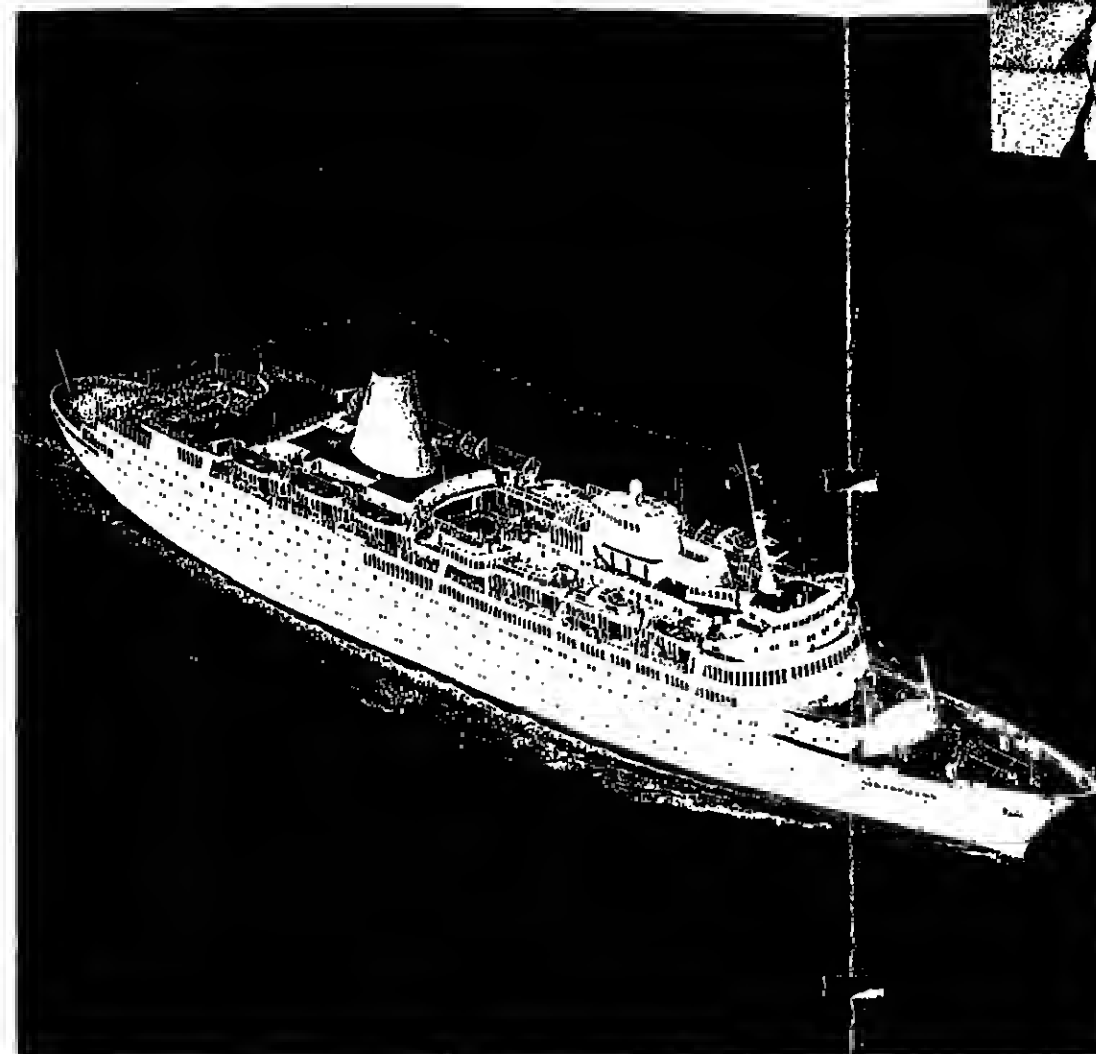
The detailed research among delegates and industry figures has enabled the organisers to put together a highly relevant and constructive conference programme. It addresses many of the current concerns of the industry in keynote presentations and practical workshops.

"Our aim," says Conference Organiser, Isabel Hutchings, "is to deliver both a comprehensive, strategic overview of the industry for a top-level, decision-making audience and to provide a series of interactive workshops which will produce real solutions and ideas."

The workshop programme will focus on four key areas:

- technological developments and innovation,
- the environment at minimum cost and for maximum competitive advantage,
- partnerships - panacea and progress?
- packaging price trends.

Separate sessions will be held for different industry sectors or types of packaging, giving delegates an opportunity of selecting the ones most appropriate to their business.



"The radical format of this new-style event really sets it apart from any of the conventional exhibitions and conferences which operate within a market sector. It has been designed to meet the complex needs of senior decision-makers who recognise the value of staying close to industry thinking but whose time for such updating is strictly limited."

Martyn Wilks, Market Development Director, Mars Confectionery

"The fact that delegates are included in setting the agenda for the conference programme ensures that the sessions are not only highly topical but also very productive. Participating at one of these events is like being part of a giant industry think-tank."

Steven Duncan, General Marketing Manager, Crown Berger

"What's really good is the opportunity to meet and talk to so many key people in one place over two days. The event provides a platform where the top customers and suppliers in an industry can focus on strategic issues and, by doing so, take a real step forward."

Gavin Walker, Marketing Director, Cussons UK

workshop sessions

Workshops 1 Innovation through technology

How to create innovation and benefit from technological developments in packaging is one of the four main themes for the workshops programme. Separate sessions will be held for industry sectors and products.

Running the 'innovation' workshop on drinks packaging will be John Thomson, Managing Director of drinks industry consultants, Zenith International. He says the priority must be innovation which is market-led and profit-driven.

His workshop will focus on a number of key questions such as how can packaging innovators respond to the trend towards premium and lifestyle products in beer and soft drinks. Also, what are the new ideas in multi-packaging of drinks?

John will lead a lively debate about the advances in material technology and, perhaps more controversially, about the European scene. Will Europe be a standard market or a series of niche markets and packaging diversify?

Workshops 2 Focus on 'Green' costs

The environment is a major packaging issue, affecting different material sectors in different ways. The workshops programme has therefore been organised to include separate sessions on plastics, paper and board, glass and metals.

Each, however, will use the theme *The environment at minimum cost and for maximum competitive advantage*.

Running the metals workshops will be John May, Marketing Manager of British Steel Tinplate, and Alex Griffin, National Manager, ACRA. John says drinks cans, food end petfood cans, paints, aerosols and other steel-based containers account for two out of every three metal cans on UK retailers' shelves.

The workshop will look at the environmental profile of steel cans, including recycled metal content, and at the relative merits of recovery systems and competing objectives. "The aim is to discuss all the issues interactively and then compare delegates' conclusions with the steel packaging recovery plan," said John.

Workshops 3 Dogma versus reality

"The dogma suggests that partnership is a panacea to drive business forward," said Alan Cooley, of PMMS Consulting, who will lead the series of workshops on partnerships.

"The reality is that what businesses are really seeking are effective business relationships that are clearly defined, measurable and which genuinely stimulate, drive and deliver change, and so improve the long-term viability of both customer and supplier."

Alan will run separate workshops for various sectors including food, drink, pharmaceuticals, toiletries and household goods. Each will focus on the questions: What is an effective business relationship? When and where should such relationships be the prime focus? Why do the vast majority of purchasers treat the word 'partnership' with considerable scepticism?

Workshops 4 Price trends - Where now?

After a turbulent period arising from the international recession, the packaging industry now faces a new challenge so far as pricing is concerned: can the rising costs of raw materials, and hence of converted packaging, be passed on?

This critical question will come under special scrutiny in a series of industry sector workshops run by Rowena Mills, Chairman and Chief Executive of RMA.

She said: "There has been intense turmoil in the past few years as the effects of recession have been felt in the world markets. With decreased demand, raw material prices fell. But now as countries move out of recession, prices are starting to move up."

"The key problem facing manufacturers," she added, "was how they could pass on any cost-based increases while under extreme pressure from major customer groups, pressurised as they are by the supermarkets, to hold prices."

Rowena will be holding separate shops for various industries including plastics, metals, glass, paper and board.

Workshops 5 Coping with special needs

Britain's increasingly ageing population poses a challenge for the industry. With poorer vision and reduced physical ability, elderly consumers can experience difficulty reading information on pack and opening products.

This important issue will be the subject of a special workshop run by Jane Moore and Ken Mulholland from the Institute of Grocery Distribution, which has been involved in a number of age-related packaging initiatives. Said Jane: "The elderly are a significant and growing part of the consumer market and we have to address their special needs if we are to meet their expectations. In the workshop, we will be looking at how the industry can enhance product appeal at the same time as improving legibility and operability for the elderly."

Two other special workshops during packaging focus '94 will highlight specific issues: 'Packaging and the Decision to Buy' and 'Technology in Design - New Horizons'.

Keynote 1

'The Strategic questions we must face'

In a scene-setting opening presentation, Victor Watson, President of the Institute of Packaging, will focus on the strategic questions that decision-makers in the industry are now having to address in the rapidly changing markets of the 1990s.

"There are many challenges in front of us," he said, "but three, I think, stand out."

"Firstly, there is a growing concentration of power among retailers and manufacturers, which could have substantial implications, and secondly, the general internationalisation of business is forcing us all to take a hard look at production, distribution and markets."

"Thirdly, as with most industries today, technology and the speed of its advance is making a very significant impact, not least on planning and investment."

Victor, a former Chairman of Waddingtons, will also discuss trends in packaging and provide delegates with his view of how the industry can develop and prosper.



Keynote 2 Facing the future

Trying to assess industry trends demands consideration of a wide range of factors - from the globalisation of trade, conforming with new legislation and technology through to environmental needs, automation and integration.

In a wide-ranging keynote address, Brian Blunden, Managing Director of Pira International, will cast an expert eye to the future, considering sourcing issues as they relate to the supply chain and commenting on the use of such techniques as Porter's value-added chains.

"The implications of the European Single Market and their effect on packaging sourcing is another vital area we will focus on," he said, "particularly in the context of global market changes and the emergence of increased industrial activity in China and the Pacific Rim."

Keynote 3

Are partnerships the answer

One of the most widely debated issues in the industry is the question of partnerships, which will be addressed in a keynote presentation by David Johnson, Business Planning Director of Lawson Mardon Packaging Ltd.

Taking as his theme, *Partnerships - Panacea and Progress?*, David will outline his views and experience of the concept, drawing on examples from his own company. He will stress the need to choose strategic partners carefully and for each party to have a clear understanding of each other's motives.

Partnerships can change existing working relationships and, with the use of the right tools, can bring a range of benefits. But are they a panacea? David's conclusions are both enlightening and realistic.

Partnerships are also featured strongly in the workshops programme with separate sessions for different industry sectors. (See *Dogma versus reality*, Workshop 3)



Keynote 4 What does the consumer want?

To what extent has packaging innovation become a necessary condition of successful brand marketing? This key question will be addressed by Paul McGowan, Head of International Research at The Added Value Company.

In a keynote presentation, *Packaging for the Consumer*, he will discuss the contrasting trends of 'minimalism' and bulk-buying through discount stores, and look at which is the dominant trend.

He will also debate the question - "What value does packaging innovation really add?" - and examine the promotional implications of the part packaging plays in terms of consumer need.

Finally, Paul will broaden the scope of his presentation by focusing on Europe and assessing the degree of consistency on the Continent.



Keynote 5

Environment - the Industry's response

With increasing concern for the environment, how should the industry respond strategically to the issues raised? What are the benefits of environmentalism? What are the costs? Who pays?

These are just some of the questions to be faced in the fifth keynote presentation. The address will focus on how the costs involved should be spread through the packaging chain and will look at the impact of environmentalism on the bottom line. It will also discuss whether environmentalism offers the possibility of cost savings and competitive advantage, and consider the likely long-term solutions to the problem.



The delegate list

Over 200 delegates from the following list of companies have reserved a place at packaging focus '94

3 M Health Care Ltd Packaging Buyer
Abbott Laboratories Ltd Assistant Materials Procurement Manager
Abel Eastern Foods Ltd Purchasing Manager
Alcan Consumer Products Ltd Material Control Manager
Allied Bakeries Ltd National Packaging Manager
Allied Frazon Foods Ltd Packaging Development Manager
Allied Lyons Retail Development Manager
Anchor Foods Ltd Materials Manager
Anglo Oils Ltd Operations Director
Aston Manor Brewery Co Ltd Production Director
Avena Bakeries Ltd General Manager
B E International Foods Ltd Packaging Buyer
Boss Drawings Ltd Packaging Design Manager
Bosters of Speyside Ltd Senior Buyer
Bounty International Ltd Operations Director
Beaverlec (Fine Foods) Ltd Purchasing Manager
Bendicks (Moylort) Ltd Operations Director
Borel Ltd Purchasing Manager
Berry Brothers & Rudd Ltd International Brands Director
Bhucroast Convenience Foods Ltd Purchasing Manager
Bodycare Toilettries Ltd Purchasing Manager
Bowyers (Wiltshire) Ltd Purchasing Manager
Bristol Myers Squibb Pharm. Ltd Purchasing Manager
British Bakeries Ltd Packaging Buyer
British-American British-American Procurement Planning Manager
Britvic International Ltd Director of Purchasing
Brooke Bond Foods Head of Purchasing
Burger King EMA Pan European Purchasing Manager
Burlington Toilettries Ltd Purchasing Manager
Cadbury Ltd Civil Buyer
Cargill Industries Ltd Marketing Manager
Chanel Foods Ltd Commercial Director
Cheshire Wholefoods (Cereals) Ltd Senior Buyer
Courage Beer Company Ltd Manager Purchasing & Packaging Materials
Cow & Gate Nutrilite Ltd Purchasing Manager
Crabtree & Evelyn Design Director

G S Home Shopping Ltd Packaging Development Manager
Garnet Workshop Ltd Buying Manager
Geest Prepared Foods Packaging Development Manager
Gerber Foods Manufacturing Ltd Purchasing Manager
Gleco Manufacturing Services Ltd Packaging Technical Centre Manager
Golden West Foods Ltd Purchasing Manager
Green Isle Foods Group Packaging Buyer & Technologist
Guinness Growing GB Planning Manager
H B Fuller UK Ltd Sales Manager
H L Foods Ltd Packaging Buyer
H P Bulmer Ltd General Manager - Purchasing
H P Foods Ltd Senior Buyer
Haristone Hosiery Operations Manager
Hastara Europa Packaging Development Manager
Hawlowood Preserves Ltd Purchasing Manager
Helene Curtis UK Inc Director of Operations
Hemel Ltd Purchasing Manager
Highland Spring Ltd Operations Director
Iceland Frozen Foods PLC Packaging Technologist
International Distillers & Vintners Ltd Purchasing Director
Irish Sugar plc Group Packaging Development Manager
J & B Scotland Limited Packaging Project Manager
J A Sherwood & Co Ltd Company Buyer
J Sainsbury PLC Packaging Buyer
Johnson Wes Ltd Operations Director
K P Foods Group Purchasing Director
Kalon Group plc Group Purchasing Director
L E Pritchitt & Co Ltd Buyer
L R C Products Ltd Materials Buyer
Lapate Absorbents Senior Buyer
Lever Brothers Ltd Chief Buyer
Lever Europe Packaging Manager
Lover Industrial Ltd Logistics Manager
Longhorne Laboratories Ltd Commercial Manager
Lyons Toilet Ltd Materials Buyer
M D Foods plc Purchasing Manager
M O Head of RAF Packaging Authority
M O Army Head of Packaging Policy
M O Navy Assistant Director
Menor Bakeries Ltd Buying Controller
Mergetta Food Ltd General Sales Manager - Catering
Mills & Spencer plc Packaging Development Manager
Mortini & Rossi Ltd Operations Director
Moorland Foods Ltd Purchasing Manager
Moy Park Limited Group Purchasing Manager
Muller Dairy (UK) Ltd Purchasing Manager
NAPP Pharmaceutical Group Production Buyer
Nobel Coalings Ltd Materials Manager
North Devon Meat Ltd Purchasing Manager
Polethorpes General Manager
Park Food Group plc Director
Peterson Aaron Business Development Manager
Patterson Arren Marketing Manager
Pemmico Foods Ltd Packaging Buyer
Porrier (UK) Limited Operations Manager
Pulzer Ltd Packaging Buyer
Pharmox Healthcare Ltd Purchasing Manager
Pillsbury Brands Europe Development Manager
Polycell Products Ltd Purchasing Manager
Potter & Moore Ltd Senior Buyer
Premier Biscuits Senior Buyer
Pretty Polly Ltd Logistics Director
Princes Ltd Packaging Manager
Procter & Gamble Research Manager
Pure Food Products Ltd General Manager, Purchasing
Quaker Oats Ltd Purchasing Manager
R H M Foods Ltd Senior Buyer
R W Connelley Director
Raine's Dairy Foods Ltd Packaging Buyer
Reckitt & Colton Products Ltd Head of Purchasing
Revlon International Ltd Packaging Development Manager
Rimmel International Ltd Plastics Packaging Buyer
Ross Young's Packaging Purchasing Manager
Seaways Stores plc Packaging Supply Manager
Senott-Winthrop Production Division Supply Chain Manager
Sephtr Produce Ltd Packaging Manager
Schering-Plough Ltd Purchasing Manager
Schell Consumer Products Ltd Operations Director

Scottish & Newcastle Breweries Purchasing Director
Selleltopo GB Ltd Packaging Buyer
Seton Healthcare Group PLC Purchasing Manager
Sheelie Pan (UK) Ltd Operations Manager - Europe
Smith & Nephew Consumer Operations Director Products
SmithKline Beecham Category Head: Packaging
Somerville Stares Packaging Design Controller
Sony United Kingdom Ltd Controller
St Ivel Ltd Buyer
Stratford-Upon-Avon Foods Ltd Brand Manager
Tate & Lyle Sugars Purchasing & Supply Manager
Tautman Cider plc Production Director
Telford Foods Ltd Senior Packaging Buyer
Tesco Stores Ltd Packaging Technology Manager

"packaging focus '94 is different from other exhibitions because of the unique opportunity it affords specifiers and buyers to meet. Mixing with my peer group is not available at most other events so the chance to spend two days with them discussing current issues, innovation and new ideas is something I look forward to."

Kevin Hyde, Packaging Development Manager, Wello Great Britain.

The Bools Company plc Packaging Controller
The Cheese Company Ltd Senior Buyer
The Invergordon Distillers Ltd Purchasing Manager
The Kerrygold Co Ltd Technical & Packaging Controller
The New Covent Garden Soap Company Production Director
The Ryvita Company Ltd Commercial Manager
The Wellcome Foundation Group Packaging Buyer
Thorntons PLC Senior Buyer
Thorntons plc Senior Buyer
Tomy UK Ltd Managing Director
Tosli Health Drinks Head of Marketing
Trellord Park Bakery Buyer
Tranfield of Yorkshire Purchasing Manager
Troels Group Ltd Chairman
Trobar Sossell Ltd Packaging Buyer
Tulip International (UK) Purchasing Manager
Vitamolco Packaging Buyer
W A Turner Ltd Edibles Buyer
W Jordan (Cereals) Ltd Buyer
Walla Great Britain Commercial Operations Manager
Westler Foods Ltd Buying Director
White Arrow Express Group Packaging Buyer
Whitworths Ltd Packaging Purchasing Manager
Wicks Building Supplies Merchandising Manager
Woolworths plc Packaging Design Manager



Further details

For more information on being considered as a delegate, please contact Vicki Morison. Attendance at packaging focus '94 is by invitation only and free of charge to delegates.

Or if you would like to become one of the leading companies exhibiting at packaging focus '94, contact Julian Gorst or John McKee.

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Information was correct at time of going to press 19th July 1994

MEET THE ASSOCIATION

Technical excellence at cost effective rates

To some people, the work of British Glass is about bottle banks and recycling facilities but, as Gail Lea discovered in conversation with director general, Bill Cook, there is a lot more to the organisation.

Up until 1987 there were two organisations representing the glass industry - the London-based GMF, which was involved mainly with lobbying, and the technically based BGIRA, which was located in Sheffield. The two bodies amalgamated in 1988 under the official title of the British Glass Manufacturers Confederation, which is more commonly known as British Glass (BG).



Dr Bill Cook, director general of British Glass, pictured promoting the 'flexibility' of glass in terms of product branding

record joined with his commercial experience is an ideal fit with the role carried out by BG itself, in servicing members in the containers, domestic and scientific glass groups.

There are now around 100 full, associate and research group members of BG which encompass large and small companies in every area of glass manufacture. For example, full members include Pilkington Glass Ltd, container companies such as Beaton Clark plc, Lax & Shaw Ltd and United Glass, as well as domestic glass producers such as Royal Doulton Crystal Ltd.

"Although the first two years after merger were difficult in terms of getting an academic-based and a London-based organisation to mix, it is our completeness of industry cover that is now one of our main strengths," says Dr Bill Cook.

The purpose of BG is to represent the British glass industry in the UK and Europe, and to become a leader

in technical research excellence for the European glass industry. Political lobbying forms a major part of BG's work, as with other associations, but Dr Cook emphasises that without the technical back-up, this could not take place.

"A great deal of legislation and issues facing our industry have a high technical content," he says, "so it is important that we have the lobbying and technical expertise in-house to deal with this."

Emissions control and soya ash production are just two of the major subjects tackled by BG over recent months.

BG has also been busy lobbying on environmental issues. It was a member of the original Copac-organisation as well as currently working in the PRG process. "One of our strengths in this area is that we set up our bottle bank scheme many years ago, and with recycling rates of 30 per cent last year, we are well on the way to meet our target of 50 per cent by the end of the decade," says Dr Cook.

Over 16,000 bottle bank sites are now in operation and

Glass Foundation which has more to do with 'blue skies' projects in conjunction with universities and colleges.

Positive margins

Indeed, the positive margins gained over the last three years from what are described as core research projects has helped fund the setting up of the British Glass Foundation. Funds from the foundation will be used to establish university research programmes within colleges such as Sheffield and Sheffield Hallam.

"If and when any of this outside research is identified as being valuable to BG members, it will then form part of

our on-going core research programmes," explains Dr Cook. "It is through this kind of work that we can demonstrate our standing as a development organisation rather than just a purely research organisation."

"There is nowhere better in the UK to source a 'new glass' than at BG as our overall capability, built up via a rigorous research team, is much better than other independent organisations," he says.

In order to protect the value of the work done for members at BG, a modest patenting programme has been developed with the approval of the companies involved. Worldwide cover for interesting new glass compositions has also been established.

British Glass is based at Northumberland Road, Sheffield S10 2UA - tel: 0742 686201, fax: 681073.

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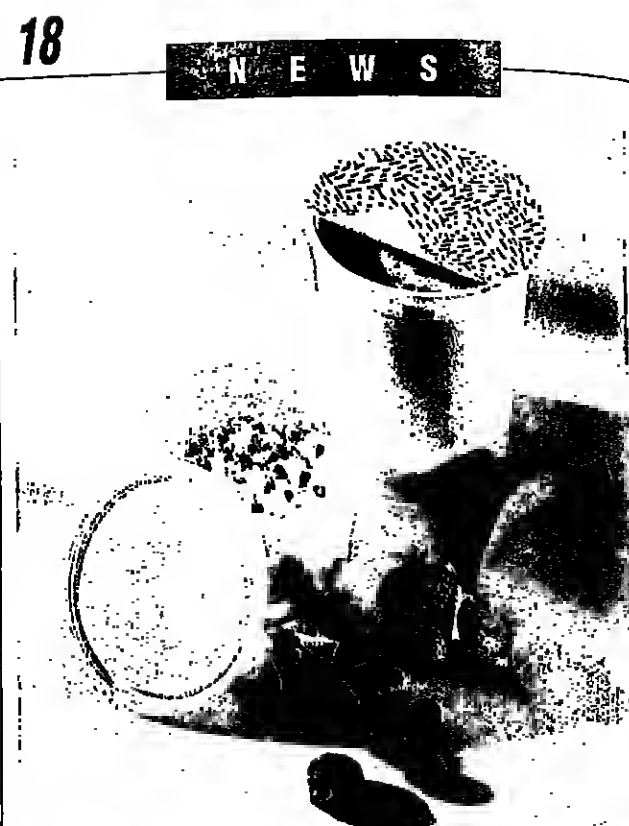
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Sealable, peelable ps resin for tubs

In response to the needs of the food industry, Dow Plastics has developed Styron FL 5012 polystyrene resin for use in sealable/peelable lidding for polystyrene tubs.

The resin allows a monopolymer pack to be produced for products such as yogurt and fresh cream and, according to Dow, improve the levels of recycling at the same time.

"The Dow solution addresses the needs of each section of the food chain," says Bruno Barbet, market manager at Dow. "Process flexibility, design freedom, recycling and environmental performance will benefit packers."

"Converters utilising the new lidding concept will appreciate the flexibility of the resin in meeting their requirements," he explains.

"Broad seal window"

Tests have shown that the resin meets these processing needs through a broad sealing window, smooth and homogeneous peeling and total compliance with all taste and odour requirements.

"Tested extensively"

Styron FL 5012 resin is the result of four years development work and has been tested extensively with converters, printers, machine manufacturers.

Medium speed filling for carbonated drinks

The range of medium speed rotary liquid filling machines developed in France by Sidel Packaging for glass and pet bottles of both still and carbonated drinks, particularly mineral water, is now available in the UK for the first time, following the appointment of Sussex & Berkshire Machinery as sales and service agent.

For carbonated drinks, the RSG range is available with 12-100 heads providing speeds up to 400 bottles a minute on typical 1.5 litre pet bottles. Sidel's RSP machines, also with 12-100 heads, are designed for still filling, aimed principally at the mineral water and spirits industries.

Speed is up to 650 bottles a minute on, for instance, a 1.5 litre pet bottle, says S&B (Blacknest, Alton, Hants GU34 4PX - tel: 0420 22669, fax: 22687).

Both series of machines are equipped with filling valves developed by Sidel Packaging that use the minimum number of seals. This, points out Jack Ralston at S&B, reduces maintenance and cleaning time.

Handling system helps to ease line pressure

A complete multipack handling system from Dunn Systems Ltd has been commissioned at Britvic Soft Drinks Ltd's plant in Rugby. The system has been designed to ease the increasing pressure on other lines at the factory.

A special version of the Wagtail 2000 multipack orientation system has been installed to turn and divide multipacks at speeds of up to 300 a minute on the six-can pack. It can also operate on four and eight-can packs, as required, with minimum changeover time.

Packs are then conveyed along a low back pressure conveyor, with fast changeover guide rails, ensuring smooth, reliable handling of packs from the Wagtail outfeed, says Dunn (Smishy Road, Ashby-de-la-Zouch, Leics LE65 2UR - tel: 0530 414444, fax: 411110).

The system has automatic selection of control for one, two or three lane operation. Analogue control of the metering belt conveyor optimises product flow and minimises line pressure at the infeed of the shrinkwrapper.

"Dunn has a good reputation and a lot of experience in conveying systems," says Bob Pursley, factory manager at Britvic Rugby. "We are very happy with the system and the way it is performing."

For further information K10 135 Call for details 0889 772288

The Wagtail 2000 multipack orientation system by Dunn

Collar style board pack for own-brand lemonade

Own-brand lemonade and mixer drinks from Tesco are one of the first bottled products to be marketed in a 'collar style' board multipack from Walmsley Ltd.

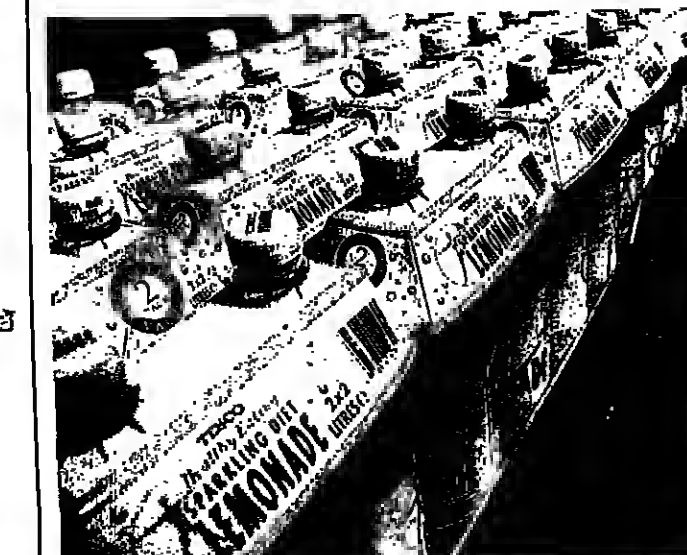
The move follows an £85,000 investment by Walmsley in a Keck multipack system - only the second of its kind in the UK - to enter this market. The system produces a multipack tray or header which features a tapered design. This is said to allow for more effective stacking and transit options.

"Our market research indicated that many multipack users are consistently troubled by handling problems and inadequate machinability of the packs on the end of filling lines," says John Hepworth, md of Walmsley (Dunnings Bridge Road, Bootle, Merseyside L30 6TR - tel: 051-523 2222, fax: 051-530 1244).

"Keck has enabled us to develop more material efficient constructions with a proven level of line performance."

G Barraclough has also adopted the system for its Twist 'n' Squeeze drinks.

For further information K10 134 Call for details 0889 772288



The collar style board multipack provided by Walmsley Ltd

Recycled foam core

As part of its continuing efforts to produce 'long life' products from recycled pvc bottles recovered at its Reprise plant, European Vinyls Corporation (EVC) has carried out a successful development programme to produce the foamed core of coextruded cladding from recycled bottle material.

The process is based on conventional foam technology in which a solid pvc skin is coextruded over a foamed pvc substrate. Bottle recycle is particularly suitable for this application because it provides high melt strength and has the right rheological characteristics to give a good foam structure, says the company (Chester Road, Warrington, Ches WA6 0DF - tel: 0928 725311, fax: 725101).

Foam cladding has been extruded on a production scale coextrusion line at EVC's r&d laboratories and the company will now be working with producers of foamed products to carry out production trials.

For further information K10 133 Call for details 0889 772288

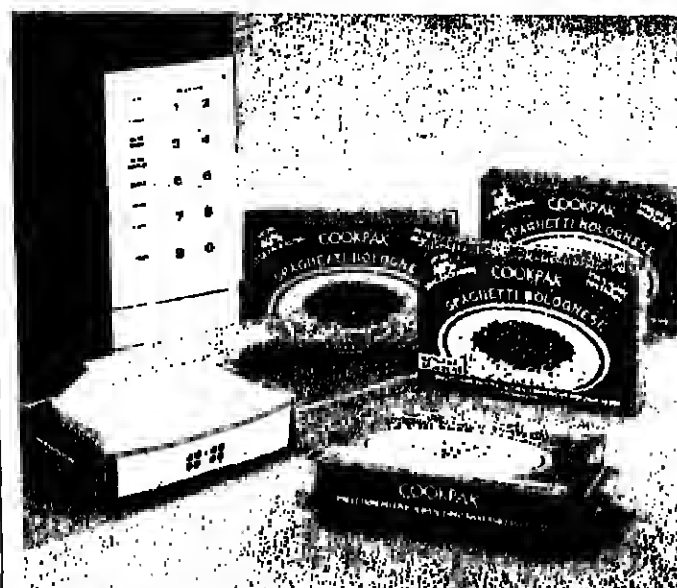
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Cookpak dual ovenable packaging system by Bonar Carton Systems

Minimal format gives ready meal savings

Savings in materials and production costs are among the benefits of a compact, dual ovenable pack for frozen and chilled ready meals, just launched by Bonar Carton Systems.

Called Cookpak, it is described as a minimal packaging format which can be erected, filled and sealed on standard Bonar Diotite cartoning equipment. This gives food manufacturers the flexibility of running either conventional freezer or dual ovenable cartons on the same line according

to need, says the company (Cheney Manor Trading Estate, Swindon SN2 2PT - tel: 0793 529266, fax: 644197).

Cookpak is made from transparent or black pet coated board, and because there is no outer cartoning, sleeving, tray or lid required, a 40 per cent reduction in packaging compared to other systems is claimed. The packs are designed to be filled directly with product for display in a freezer or chill cabinet.

For further information K10 Call for details 0839 772268

Quick turnaround on blisters

Contract packer of tablets and capsules for the pharmaceutical and health foods markets, Wasdell Packaging has just had a fourth Noack blister packer supplied by Romaco UK.

"Quick turnaround is vital in our business, we frequently receive products on a Monday which need to be packed and despatched by Friday, so we need machines which can be changed over with minimal downtime," says Richard Wasdell, managing director of Wasdell.

"The Noack is ideal for us in this respect," he continues. "Its design is very straightforward, our engineers understand the machine well and we are able to change products in a very short time."

"We handle a wide range of formats, packing tablets or capsules into blister or strip formats, foil or pvc," he continued. "Having bought our first Noack in the 1970s, we

now have around 60 sets of change parts, so that we are prepared for almost every eventuality."

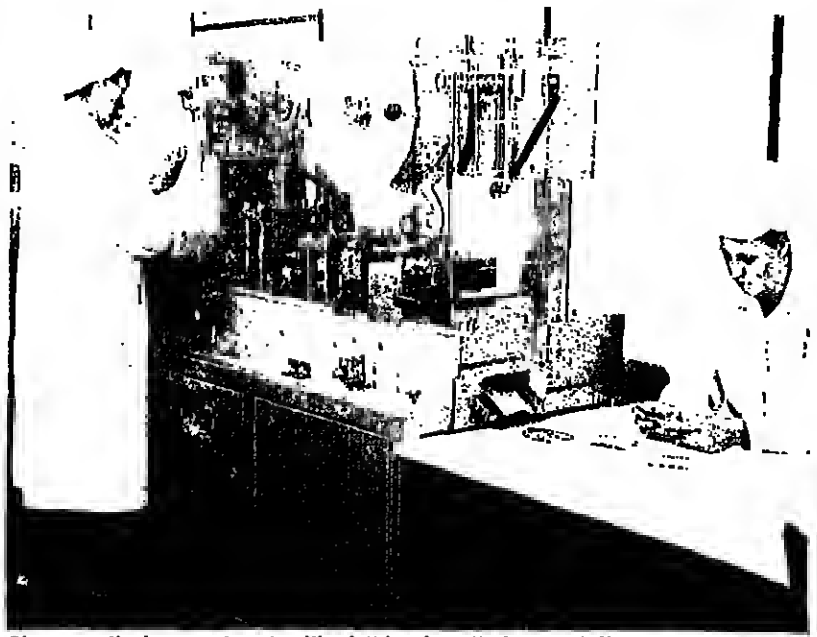
The Noack DPN760 is a flexible, well proven and ideal for contract packing businesses, says Romaco UK (Trinity House, Ermine Business Park, Huntingdon, Cambs PE18 6YA - tel: 0480 435050, fax: 414220).

At the same time, two Noack DPN760 blister packers have been ordered by Galen Ltd of Craigavon, Northern Ireland. They will

be used to pack a range of Galen's own branded and generic pharmaceutical products, in both tablet and capsule presentations, into clear or opaque pvc blisters.

Typically the machines will run at between 35 and 40 strikes a minute, producing three blisters per stroke.

For further information K10 Call for details 0839 772268



Pharmaceutical contract packer Wasdell has installed a fourth Noack blister packer

Preparation course for IOP Diploma

London Guildhall University is offering a course that helps prepare candidates for the Institute of Packaging's Diploma.

It starts this month and ends in May 1995, and com-

bines day release and evening study periods. Candidates will go through 45 informal and formal lectures, discussion periods and site visits which, says the University, will prove

valuable for any work situation, even if the examinations are not taken.

Classes will take place between 2.30 and 7.00pm on Wednesday afternoons and the

full course costs £350. A detailed programme of each session is available from the Short Course Unit, London Guildhall University, 84 Moorgate, London EC2M 6SQ - tel: 071-320 1430, fax: 071-320 1439.

For further information K10 Call for details 0839 772268

Joint sourcing finds solutions

The combining of GPG Containers and Linpac WCB under the divisional banner of Linpac Materials Handling will help customers to source the best solutions within the range of a single business, says Linpac.

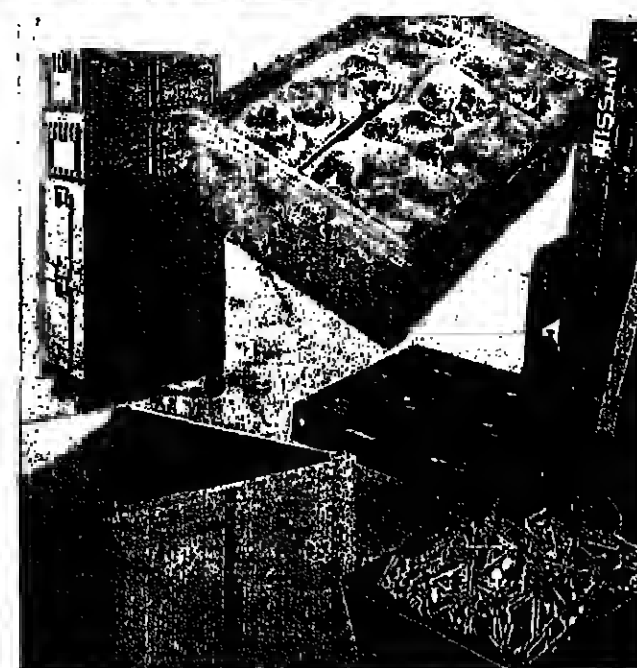
Previously separate divisions within Linpac Mouldings, GPG and Linpac WCB will have much greater opportunities to expand together, says general manager David Woodford. "This is a wonderful opportunity to improve our service, and gives us an unrivalled range of manufacturing processes to call upon to provide solutions to materials handling problems," he says.

This side of Linpac's business is expanding in mainland

Europe and other parts of the world including North America and Australasia. Products include pallets, rigid and folding box pallets, stacking, nesting and modular folding box systems.

Production processes include extrusion, vacuum forming, rotational, blow and injection moulding. Over 200 large machines are used in the major moulding companies, and further expansion is said to be planned in order to give greater choice and satisfy customer demand.

Success in the business has been helped by the increasing use of returnable rather than disposable packaging for transit. In areas such as pharmaceutical and retail distribution, systems which have since become the norm in



Plastics storage and handling products available from Linpac

Germany were first developed in the UK and Germany by Linpac, says the company. Design engineering teams are based at three sites in the UK and in France and Germany. Logistics

management is also offered, says Linpac Materials Handling (Luton Rd, Dunstable, Beds - tel: 0582 664255, fax: 668848).

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Forestry advances

Forestry industries from the traditionally competitive Scandinavian countries have overcome their differences to present the latest advances in their sector.

Jan Remrod, director general of the Swedish Pulp and Paper Association, says there are three principle aims behind the cooperation between his country, Finland and Norway. People should be made to understand exactly what forestry practices entail, what improvements have been made, and how the industry can contribute to overall economic growth.

Biological diversity

"During the last decade, special regard has been given to biological diversity," explains Liisa Saaremaa, research sci-

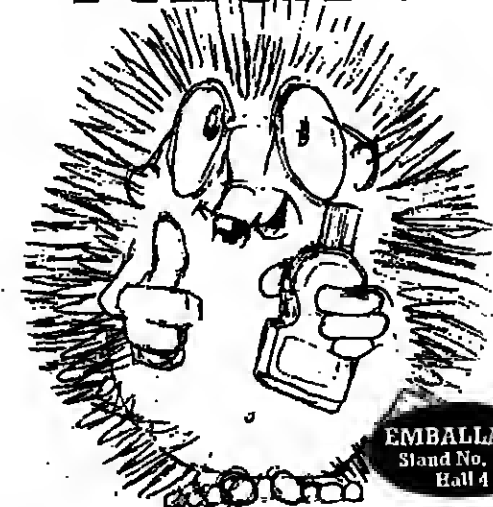
entist at the University of Helsinki. And the Norwegian Forest Owners Association makes it clear that modern practice is underpinned by legislation, with annual growth exceeding use.

Representatives agree that though there are increased costs involved with each upgrade of eco-sensitive forestry techniques, the industry will be prepared to face this.

These new methods were outlined in a London presentation. Summarising the changes taking place in the industry is a 28-page booklet, *Scandinavian Forestry*, available from the Pulp and Paper Information Centre (1 Rivenhall Road, Westlea, Swindon SN5 7BD - tel: 0793 887468, fax: 886182).

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Philip Corke

Philip Corke has joined Physic Containers as managing director of the Containers UK division, one of the four divisions of the £88 million turnover group. He will report directly to Physic managing director, Malcolm Macintyre.

Greg Mullins has been appointed managing director of Leeds-based Plastohm, a subsidiary of John Waddington plc.

Barbara Jackson, previously with Reed Exhibitions, has joined PPMA, the Processing and Packaging Machinery Association, as business development consultant.

Robert B Williams has stepped down as managing director of Schades Ltd, and is succeeded by Philip Clarke, the previous sales and marketing manager. Mr Williams, who is group managing director of Schades Papier AG, will remain on the board of the UK company as chairman.

Sandy Younger, marketing director of The Simpson

Label Co Ltd, has been elected president of FINAT, the international association of the self adhesive label industry. Mr Younger was elected to the office for the next two years at this year's Congress in Cologne, Germany.



Sandy Younger

Michael Mealing has been appointed as the new chief executive of the Institute of Waste Management.

Neal Whipp has joined Boxfoldia Ltd as marketing and sales director, having previously been head of sales and marketing at Bous Print Ltd.

Geoff Holbrook has joined Timgate Forms & Labels as the southern area salesman, having previously worked for the company Pricemaster.

Tony Mitchell, formerly of thermoflexing company Impact, has joined Polbeth Packaging as director of sales.

Ron Harding has been appointed sales executive at Kuber Houghton Agencies, a

move that follows the recent acquisition of a majority stake in the Letchworth agency by Engelmann and Buckham (Holdings).



Marc Jacobs

Marc Jacobs has been appointed technical manager for Mead Coated Board (UK).

Bert Keary, previously with UCB Packaging Ltd, has joined Paramount Packaging (UK) Ltd as production manager.

John Harbour has joined Harland Machine Systems Ltd as technical representative for its range of pressure sensitive labelling systems. He will represent the company across the South West of England and South Wales.

Mark Davies, previously with APV Baker, has joined the Klockner Hansel (UK) sales team and will be responsible for selling the range of processing and wrapping machinery.

Gordon Mackenzie has joined Fleet Laboratories as sales executive for the contract manufacturing side of its pharmaceutical business.

Colin Stickland has been appointed product manager for the tea division of Beiersdorf UK Ltd.

Ted Whitehead has retired from his position of area sales

manager for the south east at T & D Packaging, after 4 years in the packaging industry and the past seven with T & D.

Ian Owens is the new technical area sales representative for the North of England and Scotland for T & D Bisco, a division of T & D Industries plc.

Paul Gibbs has joined Decorative Sleeves Ltd as southern area sales manager having previously spent 10 years with Courtaulds Packaging Cannings.

Giovanni Solferini has resigned from his position with the Gnala Group to pursue his own activities.

Dave Charlton has been made finishing technical specialist at Pershke Price Service Organisation to help extend the market for the Herzog & Heymann range of folders.

Roger Rowland has joined Claygate Chemicals as technical sales manager and will handle sales of a range of opp laminating films and laminating equipment.

Peter Clarke has been appointed a non-executive director to the board of Jarvis Porter Group plc.

David Horton has joined Arp Wiggins Carbonless as market manager for Idem reels and Idem superior products.

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Pallets checked, scanned and thoroughly tested

A pallet inspection system combining both mechanical strength testing and camera-based surface scanning is now being marketed in the UK by J-L Automation Ltd.

While including mechanical measurement of the loading capability and the strength of joints, as on several installed systems, JL has worked together with Thyssen Still Otto Anlagentechnik to add a vision inspection module which checks for surface damage and accurately measures the overall size.

The optical phase consists of a pe-controlled vision unit incorporating an integral vision board and digital signal processing unit. Up to three cam-

eras can be connected to the basic system, and by adding a multi-camera board this number can be extended to eight.

"Examines plank spacing"

Camera checking from top and bottom examines plank spacing, widths and overall size, which is critical if the pallet is going to enter an automatic handling system.

Inspection can take place while the pallets are moving, at speeds of up to 320 pallets an hour, says the company.

Block inspection is carried

out with side-mounted cameras, checking for the sort of damage that might be inflicted by fork lift trucks. Visual inspection is the only way of checking block damage economically due to the wide range of possible faults, says J-L (Unit 2C Hylton Park, Hylton Riverside, Westington Way, Sunderland, Tyne & Wear SR5 3NX - tel: 091-516 0007, fax: 091-549 3662).

A twisted block is one example of the sort of fault that might pass a mechanical test but will be picked up by a vision system. If left undetected this might jam a handling line.

Other checks that are carried out include detection of

"Technique added"

J-L has added the technique to its existing range of high speed machine vision systems. These account for some 200 installations throughout Europe ranging from cosmetics inspection to robot vision guidance.

The company estimates that there are around 20 million pallets throughout Western Europe used for both storage and transit, representing in total a multi-million pound investment.

For further information K10 call for details 156 0839 772268



Slot gives hanging savings

Avoiding the need for header cards for hanging displays is a self- or heat-sealable pe pack from Braythorn plc, with a Euroslot punched directly into the plastics above the seal.

Product names and information or logos can be printed directly in up to six colours onto the Euro-Display pack,

or onto a separate card insert, says Braythorn (Phillips Street, Aston, Birmingham B6 4PT - tel: 021-359 8800, fax: 021-359 8412).

The system offers savings in time, manpower and overall costs, says the company.

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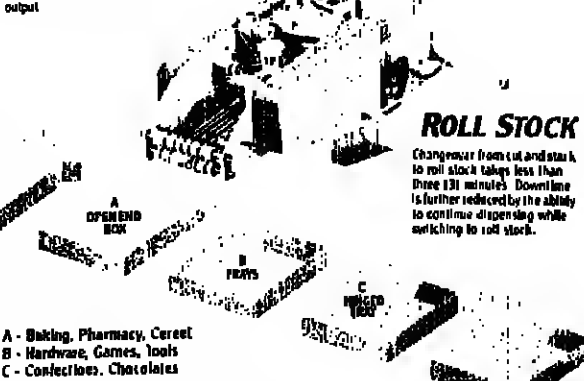
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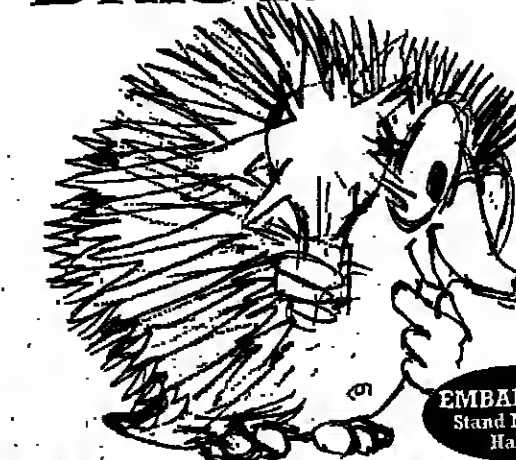
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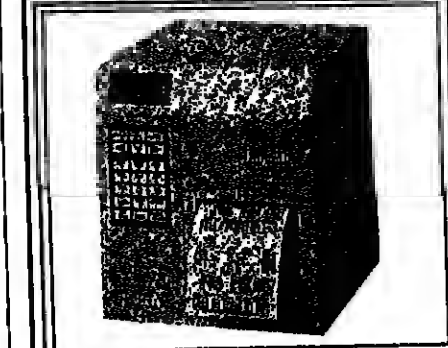
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GLASS ENTERS A SECOND LIFE

Even while packaging was set to overtake building as the biggest UK user of plastics, glass was proving that it had plenty of benefits and imaginative design possibilities of its own.



A MIX OF MESSAGES FROM AN EXPERIMENTAL '60s TOILETRIES PACK



THE CARRY-HANDLE ON CARTON OF MR KIPLING CAKES WAS SUBSEQUENTLY DROPPED AND INCORPORATED INTO THE LOGO

The labelling of Food Regulations, first laid before parliament in December '67, were raising a storm of protest early the following year. The provisions, when put into effect in January 1971, would significantly add to the cost of packed food, said critics. "In fact, the regulations appear to be yet another club fashioned by the government to beat to death its own prices and incomes policy," PN growled in its February '68 front page lead.

Plastics accounted for ten per cent of money spent on packaging in Europe, delegates were told at a conference at the beginning of 1968. These materials were no longer considered to be novelties, and research among housewives, comparing findings from six years before, found that plastics packaging was no longer considered to add to the final cost of a product.

But glass was fighting back with new designs and marketing strategies. Now-familiar packs appearing on the scene for the first time included the Teacher's Scotch whisky clear glass bottle. This oval-section bottle from Rockware Glass replaced a round green one.

Containers designed for reuse included, in March '68, the Maxwell House "Old English" coffee/storage jar in opal glass, also from Rockware. With a height of six inches and diameter of four inches, the jar was probably the largest ever opal glass container made in the UK, said PN.

The pack, which included a plastics stopper, involved an early example of tamper evidence. As PN explained: "To give security in transit and deter pilfering, there is a band of pvc around the join of the lid and body. This is applied by hand

and then shrunk into place by a shrink tunnel."

General Foods had been having great success with its Maxwell House pack incorporating a reusable glass tumbler. The closure was a snap-on



CHILLED DESSERTS WERE MAKING AN APPEARANCE, PACKED IN PLASTIC TUBS WITH CARD OR FOIL LIDS

pp lid over a Lectraseal foil membrane. The 4oz tumbler was produced by Ravenshead Glass and supplied through Johnsen & Jorgensen Ltd.

A snug fit between bottle and closure is to be expected, but the Union de Brasseries Parisienne took this one step further, adapting the base of their beer bottles to produce a cavity which acted as an "opener" for the twist-off crown of a second bottle.

But in some volume applications, glass was

seen to be slipping. At the end of 1968, East Kilbride Dairy Farmers of Glasgow became the first dairy in the UK to pack milk in Tetra Brik cartons and the first in the world to experiment with two-pint cartons. Other dairies were planning to follow this lead, installing standard or aseptic filling equipment.

French mineral water Vitrel had moved out of returnable glass into an Oscar de l'Emballage winning pvc bottle. The company required that the bottle should cost no more than the glass it replaced. More than six years of development went into the launch. The bottle could be filled at speeds of up to 12,000 an hour.

In-mould labelling of plastics could be applied in any shape of pack and any of the commonly-used blow-moulding plastics, manufacturers were saying in June '69. Eximex and Battenfeld of Germany had jointly developed the Formprint system, shown at interpack the month before.

Among packs highlighted in an October '68 profile of cartoning equipment specialist Jacob, White & Co were cartons for Mr Kipling cakes.



GLASS MANUFACTURERS WERE ENCOURAGING RE-USE OF THEIR CONTAINERS RATHER THAN DISPOSAL

Some of these included a carry handle for these very weighty goods! But like so many of the innovations of the '60s, this one did not last.

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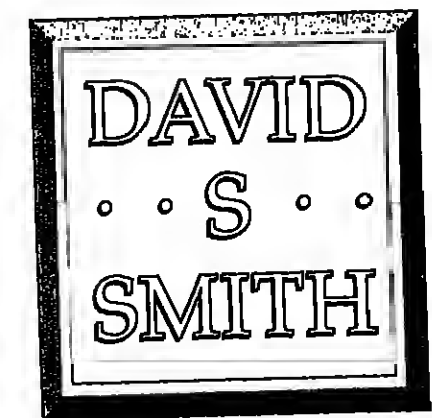
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Pack Expo 94 is set to boom

Pack Expo 94, sponsored by the Packaging Machinery Manufacturers Institute (PMMI), takes place November 13-17 at McCormick Place, Chicago, USA and is set to be the largest ever.

"The extensive interest for our show will continue Pack Expo's unchallenged record as this hemisphere's leading and largest showcase of packaging and packaging related converting machinery, materials and technology," says show committee chairman, Wilbert Brannan III of Scandia Packaging Machinery Co.

In 1992, more than 65,000 visitors attended the show and the organisers expect well over 70,000 international and domestic attendees for this year's 900,000-sq ft event.

The International Business Center has been expanded for the show, as PMMI expects a 35 per cent increase in overseas visitors. Located in the Mezzanine Level of the North Building at McCormick Place, it will include a market development office, full interpreter facilities and currency exchange desks.

"The packaging machinery manufacturing industry is an international business," says PMMI global marketing committee chairman, Jeff Ake of Electronic Liquid Films Inc. "At Pack Expo 94,

every effort is being made to provide international visitors with information about US manufacturers and assist them in purchasing and importing US equipment."

Information on the show is available from PMMI (4350 North Fairfax Drive, Suite 600, Arlington, Virginia 22203, USA - tel: +703 243 8555, fax: +703 243 8556).

• The Institute of Packaging Professionals (IOPP) have arranged several conferences and seminars to run immediately prior to Pack Expo on the Friday and Saturday (11-12

November). These will cover introductory level courses on packaging machinery, flexible packaging and pack testing, up to a training seminar for packaging sales professionals. Telephone: +800-432 4085 for further details.

• The Council on Packaging in the Environment (Cope) will host a one-day conference - Saturday 12 - on global environmental packaging issues. It will include presentations on current and developing regulatory issues in Europe and North America. Contact: Holly Essler at Cope - tel: +202 331 0099, fax: +202 466 5447.

Here, we preview just some of the new products on show during the event.

For further information K10 Call for details 0839 772288



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The tolerance specification for all colours is by CMC, L*a*b* of 2:1 and of = 1.2. Colour specifications and tolerances were established using the X-Rite 938 Spectrodensitometer and QA-Master software.

The report format we prefer is the format generated by X-Rite's QA-Master software. We have enclosed a sample report for your information.

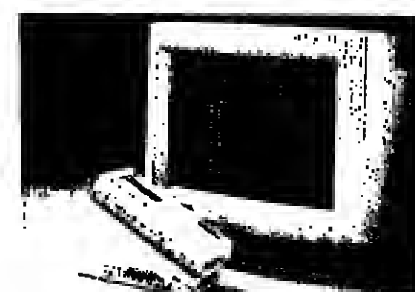
We anticipate having our new colour control system in place by the end of the month, and request your full cooperation at that time.

GET YOUR COLOUR RIGHT ON TARGET.

Are you tired of packaging that gets rejected because of colour?

In today's competitive marketplace, incorrect colour is a chance neither printers nor specifiers can afford to take. Yet getting colour right on target is difficult if no one has a clear definition of what that target is. That's precisely why X-Rite's 938 model spectrodensitometer was created. With the 938, it's easy to specify and control package colour - faster and more accurately than ever before. That means printers and buyers can agree on colour specifications in advance - before any costly mistakes are made.

A completely portable and hand-held instrument, the 938 can store up to 500 colour measurements taken from a wide variety of packaging and labeling materials. When these measurements are downloaded into X-Rite's exclusive QA-Master™ software for Windows™



or SpectroStart™ software, they graphically show which samples are within acceptable tolerances. QA-Master and SpectroStart even generate SPC reports to prove colour consistency over time. All of which saves time, saves money, and minimizes errors - while maintaining good working relationships between printers and print buyers.

If you want colour that's consistently on target, inquire about X-Rite's 938 spectrodensitometer and accompanying

QA-Master or SpectroStart software by contacting X-Rite's authorized dealer. Also inquire about X-Rite's valuable Guide To Understanding Colour Communication and Guide To Understanding Colour Tolerancing, yours free of charge. Once you do, you may never miss the colour target again.

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Call on 0839 772288 or enquiry number K10-421

Label printer suits moderate production

Said to offer the latest in print and apply technology, Matthews International Corporation will launch its Model 8221 label printer/applier.

Depending on label size, up to 65 labels a minute can be applied, which makes the equipment ideal for moderate production rates, says the company (6515 Penn Ave, Pittsburgh, Pennsylvania 15206, USA - tel: +412 665 2500, fax: +412 665 2550). A special ramp arrangement is said to ensure precise label placement to an accuracy of $\pm 1/16$ in.

For reliable operation, the 8221 Mini continuously monitors the printing process and label supply status. Led indicators show the operator error and fault messages, helping in the set up and operational trouble shooting. A host of

diagnostic tests assures virtually error-free labelling, says the company. It handles many barcode symbologies and, due to the small footprint, the 8221 Mini can fit into the most compact of manufacturing spaces. Booth: 2480

For further information K10 Call for details 0839 772288

The Model 8221 label printer/applier

Versatile induction capsealer

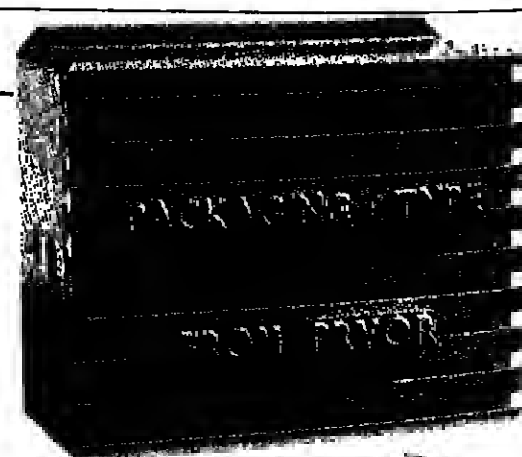
The versatility of the TR-Series induction capsealers will be demonstrated by Lepel Corporation, including the latest portable version - Lepak Jr - as well as the conveyor-mounted Uniseal model.

Shown in full operation for both product and system analysis, the TR-Series consists of high (300ft a minute) and

lower volume units, at 60ft a minute. Accommodating seal sizes from 5-160mm, the equipment delivers high efficiency performance for a variety of product markets, says the company (50 Heartland Boulevard, Edgewood, NY 11717, USA - tel: +800 321 6008, fax: +516 586 3232).

The Lepak Jr is designed for laboratory and low volume sealing applications and will seal closures from 5-70mm. The Uniseal requires no floor space and can also be moved between packaging lines. Booth: 3215

For further information K10 Call for details 0839 772288



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Conveyor cuts damage

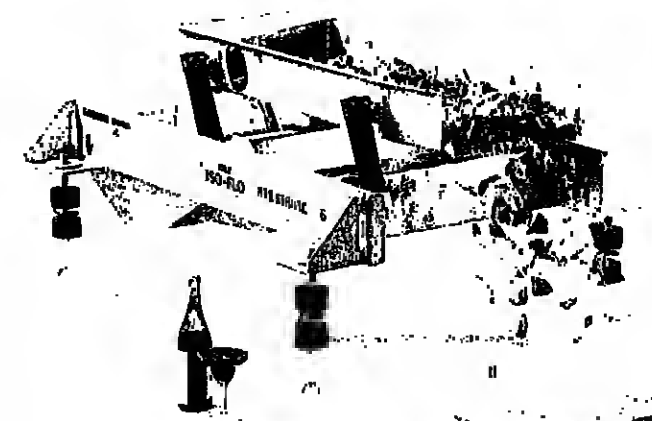
Designed to reduce product damage during conveying by eliminating the mechanical start/stop transients common in scale feed applications, the Iso-Flo smooth-cycle vibratory scale feed conveyor will be shown by Key Technology Inc.

Also on show will be an on-line scanner which provides real time quality analysis for mass flow-fed food and non food products and a new Iso-Flo conveyor, which is designed to reduce breakage of delicate products in conveying, by sliding product forward on the conveyor bed using reverse displacement.

A wide range of vibratory conveyors, all designed for reduced energy and quiet operation, are offered in the Iso-Flo range from the company (150 Avery, Walla Walla, WA 99362, USA - tel: +509 522 3361).

Booth: 3027

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The Iso-Flo smooth-cycle vibratory scale feed conveyor from Key

3364, fax: +509 522 3361.
Booth: 3027
For further information K10 Call for details 0839 772288

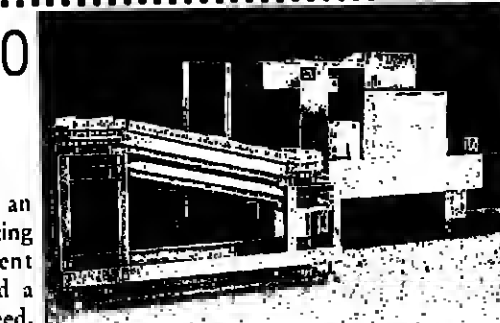
Shrinkwrappers to be demonstrated

Three shrinkwrapping systems will be demonstrated by Polypack Inc at the show.

The company supplies a range of shrinkwrappers that offer the capability of both sleeve wrapping and total enclosure of products. At the show, a semi-automatic, manually operated machine will be one of the lines to be exhibited.

Also, an auto-collating intermittent model and a high speed, automatic, continuous motion sealer will be shown by Polypack (10650 72nd Street North, Building 402 - Largo, Florida 34647, USA - tel: +813 546 5761, fax: +813 544 4165). Booths: 417 and 2619

For further information K10 Call for details 0839 772288



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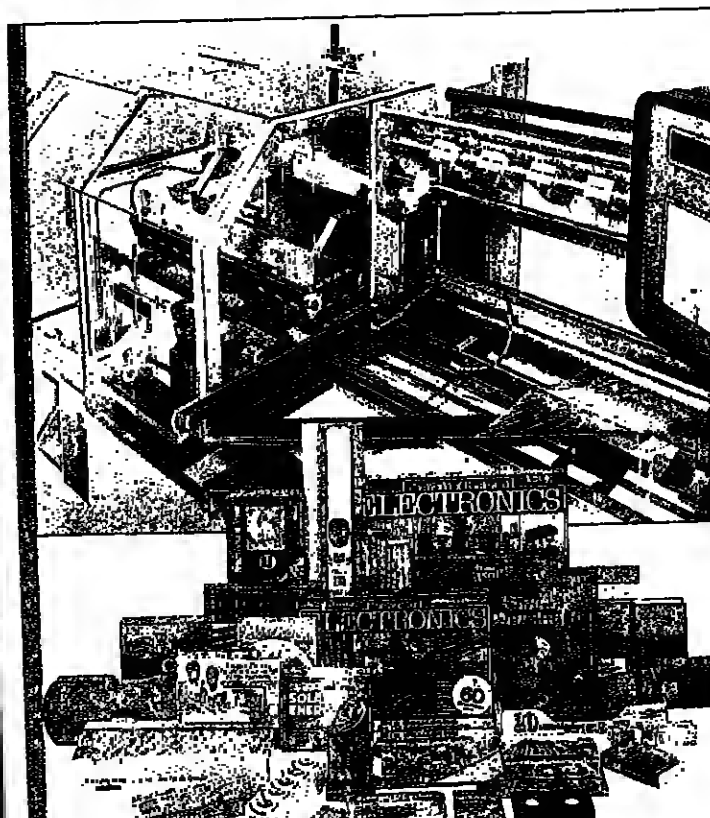
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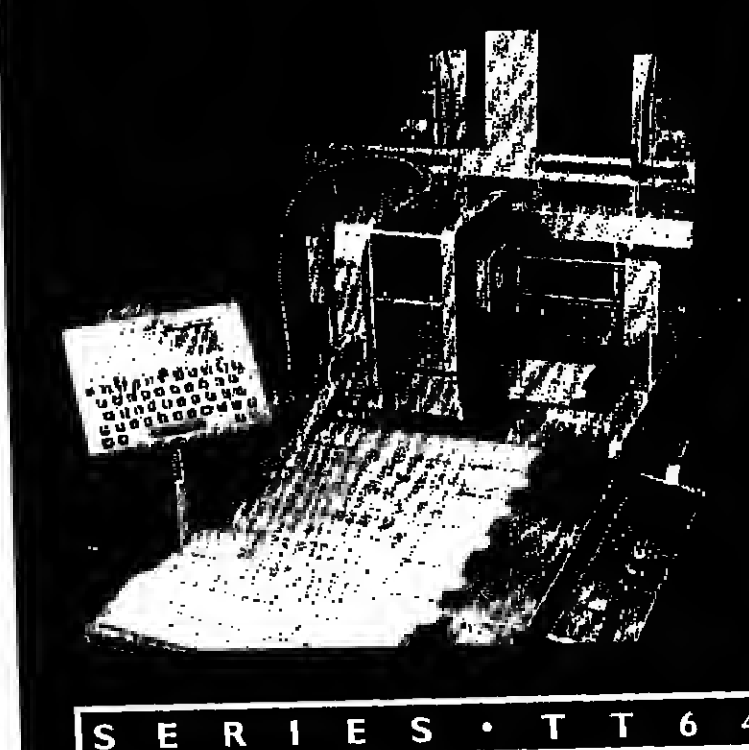
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BRIEFS

AS WELL AS SHOWING its Pic-Tor, Scribe and Comet IP85 rated label applicator system for the first time in the USA, a range of high quality labels will be displayed by Harland Machine Systems Ltd (061-848 0622). Harland will be on its new owner, Engraph's, stand. Booth: 1019

AUTOPROD INC is introducing an in-line cup fill/rollstock seal/cap system employing Benhill clean in place bottle filling units. The PP 1 x 4 TE combi-system fills 126-1200cc pots at speeds up to 14,400 containers an hour. It is ideal for food products, says the company (+813 672 7753). Booth: 2171

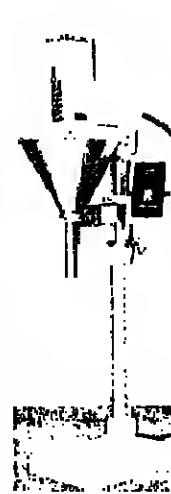
TETRA LAVAL Food Hoyer will launch the Hoyer HP cartoner as well as demonstrating a Tiromel 4000 stainless steel filler machine from Tetra Laval Convenience Food Inc. Operating speeds of up to 3000 cartons a minute can be achieved. Booth: 2882

SPONSOR OF PACK EXPO, PMMI has formed a working alliance with the Grocery Manufacturers of America (GMA) with the first results being the co-sponsorship of PMMI's new packaging technology trade show by the GMA. The show - Pack Expo West - will be held 9-12 October, 1995 in Las Vegas.

Augur fill control simplicity

A stepper motor controlled auger filler - the Model 1800 - will be introduced by Mateer Birt, as well as an outsert applicator for use in labelling applications - and a Neutron filler for companies requiring metric standards.

The auger filler is described as reasonably priced and offers functional simplicity to meet



just-in-time filling capabilities. The model 1800 fills powders, liquids, creams and pastes at up to 150 fills a minute.

The outsert applicator is for customers that require a folded leaflet to be attached to a pack or container, such as pharmaceutical information, coupons or recipe booklets. Available as a free

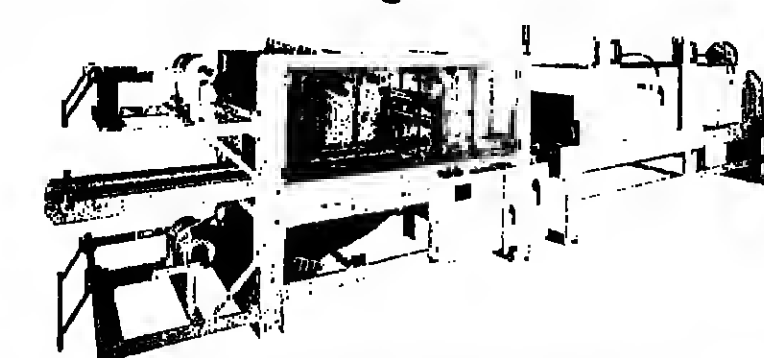
The Model 1800 filler

standing unit, the heart of the system is the ILU labelling unit from the company (434 Devon Park Drive, Wayne, PA 19087, USA - tel: +610 293 0100, fax: +610 341 9345).

The model 1000M metric auger filler - the latest in the Neutron range - will fill at speeds up to 120 containers a minute. The same filler can also be changed over from liquid to powder filling in less than 15 minutes, says the company.

Booth: 409
For further information K10 109 0839 772288

Smooth integrated transfer



The Model 60 from Arpac: high speed wrapper and tunnel combination

An integrated line comprising a tray erector, tray loader, case turner and shrinkwrapper will be shown by Arpac.

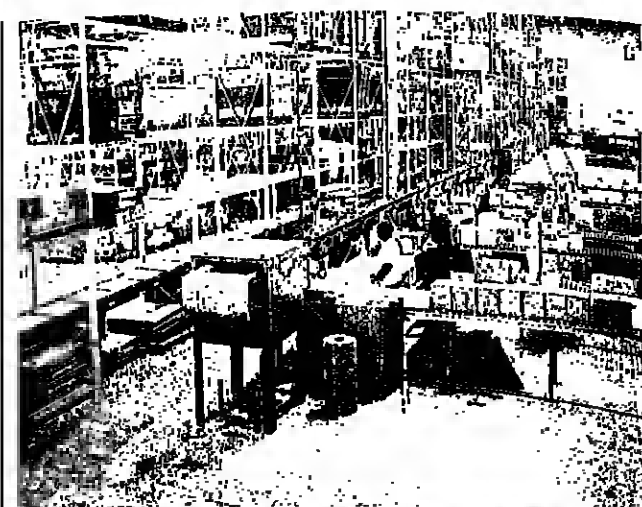
This integrated system will

pack bottles, cans or cartons at speeds of up to 60 trays a minute and, because of the smooth transfer incorporated, metals, glass and plastics can be

handled. Key to the system is the simple and fast size changer, says the company (9511 West River Street, Schiller Park, IL 60176, USA - tel: +708 678 9034, fax: +708 671 7006).

The integrated line comprises the model CMTL-60 high speed, continuous motion tray erector/loader. All three components in the system operate from a single plc with graphics display screens and local controls at key locations throughout.

Booth: 2676
For further information K10 109 0839 772288



The Bellway PadPak system from the Ranpak Corporation

Photoelectric cell aids dispensing

Designed to make the dispensing of packaging materials easier on an assembly line, the Bellway PadPak system will be among products shown by Ranpak Corporation.

Also on show will be the EcoPak system, which is used to store and dispense loose fill packaging materials, and the Pad-N-Pak workstation.

The Beltway converter uses a photoelectric cell to activate the cutting mechanism each time material is taken from the conveyor. Preselected size pads range from 10 to 66in.

Three new dispensers in the EcoPak range will be

shown, including a wall-mounted version, the roller easter mobile dispenser and the dual position bench-type dispenser. All three accept 10, 25, or 40lb boxes of EcoPak loose fill material which is made from kraft paper.

On the Pad-N-Pak workstation, all the operator needs to do is press the pedal or set the automatic controls to gain cut-to-order packaging material, says the company (8023 Grille Road, Concord Township, OH 44077-9702, USA - tel: +216 354 4445).

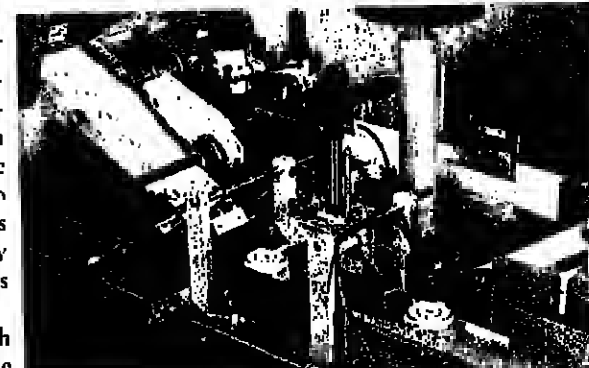
For further information K10 110 0839 772288

Two-winged security

A two-stage application process for self adhesive two-winged tamper evident labels, which can otherwise be problematic to apply securely, has been developed by William Sessions Ltd of York.

Keeping up with fast line speeds, the modified Collamat 6000 head has had a mechanical gate and wipe-down station added to ensure that full benefit is gained from the labels.

Labels are applied to the top of container closures in the



The specially adapted self adhesive labelling system

usual way, before product is indexed into a separate position where one or two wings of the label are wiped down.

The use of this separate stage, momentarily immobilis-

ing the container, means that a fold down can be achieved which hugs the contours of the pack, forming a more secure seal.

This version of the Collamat 6000 can handle a range of label materials, says Sessions (The Ebor Press, York YO3 9HS - tel: 0904 659224, fax: 644888).

Among the self adhesive materials available from the company's roll label division are papers with a variety of finishes, acetate or ps films with different finishes and destructive substrates designed more specifically for tamper evidence.

For further information K10 154 0839 772288

Smooth paper for premium bags

A double-sided high-gloss paper has been developed by Sappi Europe with the carrier bag market for fashion and other premium goods in mind.

Strength and good crack resistance are other characteristics of the paper, Algro Primess, which uses a high proportion of longer fibres in the furnish. Normally there is particular danger of cracking at

the corners and gussets.

A smooth surface for printing in either flexo or gravure is achieved with a double blade coating, says sales and marketing director Richard Moyle.

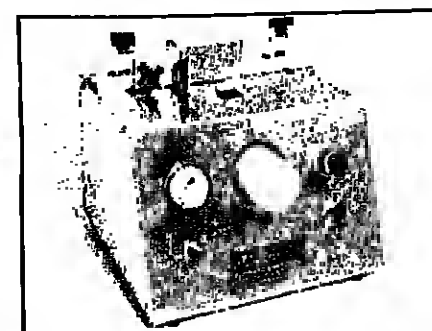
"The high surface smoothness is really the critical factor in achieving the ultimate brightness from the gravure print," Mr Moyle explains.

High whiteness is obtained without the use of added optical whitening agents, says Sappi (Wolvercote Mill, Wolvercote, Oxon OX2 8PZ - tel: 01865 516011, fax: 516520).

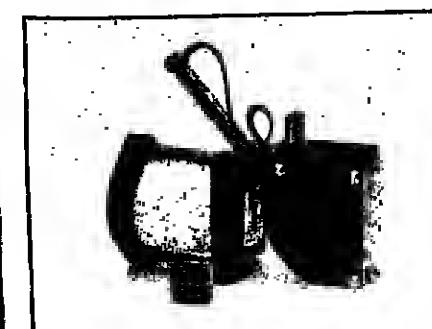
The paper is only available in reels, between 50 and 135gsm. It can be metallised, pe coated or laminated.

For further information K10 155 0839 772288

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Is imitation the finest form of flattery?

Large players in the metals packaging market should encourage the creative spirit of smaller companies, even if it means spending time in negotiating licence agreements because, argues Jim Leftwich*, it is this innovation that will benefit the metals industry as a whole.

The carousel biscuit tin which Linpac Metal Packaging recently produced for US company Sunshine Biscuits Inc has been widely acclaimed and has generated many enquiries.

However, the tin, which has been inspired by the universal theme of a fairground carousel, was only produced after lengthy discussions culminated in a licence agreement with the company which holds the registered design rights in the design of the tin.

In 1992, Bodnitz Allan (Clunichills Confectionery) had designed a carousel shaped confectionery tin, which it subsequently commissioned Linpac to produce. The design was reg-

istered by the company under the Registered Designs Act 1949, with special reference being made to the fluted canopy lid, the ingenious window effect and the embossed prancing horses.

"A general desire for originality"

Registration of industrially applied designs remains a relatively rare phenomenon in the metal packaging industry. Despite a general desire for originality, shapes and designs are frequently borrowed and

reinvented with little regard for whose designs they were in the first place, and whether the original designer has any registered or unregistered rights in those shapes and designs.

This situation benefits the larger players in the market who have the resources and expertise to manufacture and market the designs, but it does little to encourage the creativity of small design houses.

I would not question therefore the shrewdness of Bodnitz Allan in securing the rights of its design by registration, even though some might argue that the idea of making a tin in a carousel shape is a universal design and should not be capa-

ble of registration anyway. Legally, the registration process is quite straightforward.

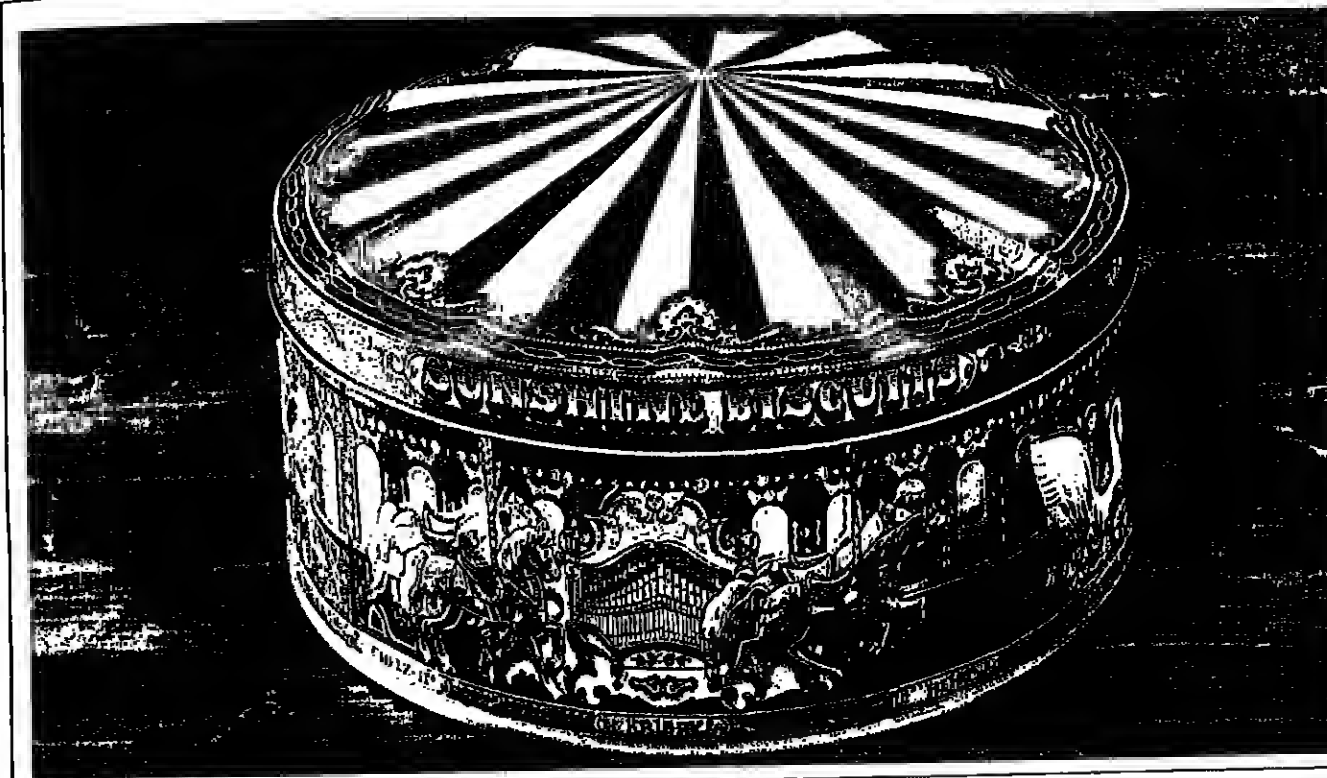
"The legal process of registration"

A designer simply has to register the special features of their design with the registered design section of the patents office and pay the appropriate fee. However, they must be able to show that the design is new, that it has eye appeal (ie: that the design is not purely functional), and that the appearance of the article in respect of which

the design is registered is an important factor.

The Bodnitz Allan registered design affected Linpac when approached by Sunshine Biscuits to produce a similar tin for them. We were therefore faced with three choices:

- The first was to railroad the smaller company and produce the tin anyway - challenging them to a potentially costly and long-running legal battle
- The second, and the one probably favoured by many fellow manufacturers, was to alter the design just enough to avoid infringing the registered design, while at the same time satisfying the new customer
- The third option was to



The design of the carousel shaped tin includes a fluted canopy lid, an ingenious window effect and embossed prancing horses

work with Bodnitz Allan in order to satisfy the interests of both companies.

Linpac chose the third option which meant the tin could be produced for Sunshine Biscuits and, in accordance with the licence granted by Bodnitz Allan, we have credited the company with the design on the base of the tin, as well as paying a small royalty for each one produced.

"May seem unnecessarily altruistic"

This may seem unconventional and unnecessarily altruistic, but we took the decision for genuinely commercial reasons.

Creative design is at the heart of the metal packaging industry, and if we crush that, then we are in danger of

destroying ourselves.

I believe that real creativity can come more freely from small design companies than from large manufacturers where individuality can be subjugated in favour of 'corporate conformity' and imposed budgetary limits.

The large players in the market should, where possible, encourage the creative spirit of smaller companies, like Bodnitz Allan, even if it means spending time in negotiating licence agreements because, in the long term, it is all of us who will benefit by the resulting growth of the metals industry.

* Jim Leftwich is managing director of Linpac Metal Packaging Ltd (Headley Road East, Woodley, Reading, Berks RG3 4SL - tel: 0734 441144, fax: 441436).

For further information K10 116 Call for details 0839 772288

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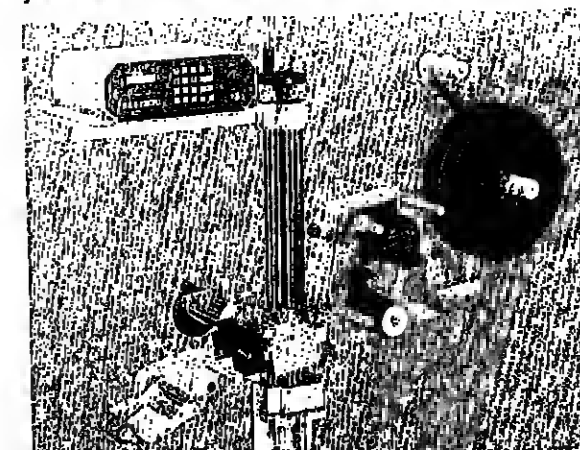
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Call on 0839 772288 or enquiry number 410-423

Last month saw the machinery-only PPMA show move to the NEC, Birmingham, for the first time. A record number of new machines were on show and here we highlight just some of them.

Unloaders, laminators, applicators

Patented pull and drum unloaders, coating and laminating equipment and a range of hot-melt applicators were launched by System Devpak Ltd.

The unloading and laminating equipment is a result of a distributorship agreement with May Coating Technologies Inc. The hotmelt applicators will be marketed under the DEVmelt range of equipment, says the company (11 Grosvenor Grange, Warrington, Cheshire WA1 4SF - tel: 0925 815231, fax: 851162).

The L112 coater/laminator is a pilot production web coater, designed for feasibility trials and preproduction runs.

For further information K10 Call for details 117 0839 772288

Legible inkjet in tiny sizes

What is claimed to be the world's fastest inkjet printing system for use in the brewing and distilling industries was launched by Domino UK Ltd.

The Domino Solo 6 Pinpoint and Codebox 3 Pinpoint systems are capable of printing as many as 2,400 characters a second, says the company (Bar Hill, Cambridge, CB3 8TU - tel: 0954 782551, fax: 782874).

Specifically designed to meet the growing requirement from brewers and distillers to mark containers discreetly, Pinpoint produces legible text at sizes down to 0.6mm high on almost any substrate. A choice of print fonts can be used, which allows print to be put into small spaces.

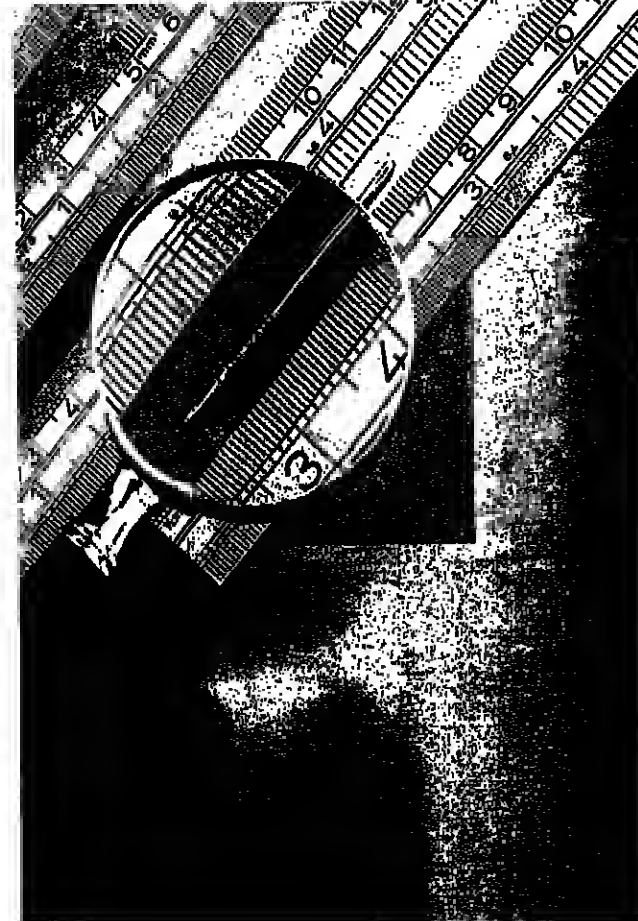
Pinpoint works on high speed production lines, coding containers at speeds of up to 360m a minute.

The patented design delivers ink to a tiny 40 micron nozzle - 20 per cent smaller than anything Domino has produced before - which produces a dot of between 160 and 250 micron diameter, depending upon the surface.

The printing head itself is heated to a temperature of more than 42deg C.

For further information K10 Call for details 117 0839 772288

The tiny 40 micron nozzle by Domino makes a dot of 160-250 micron diameter, depending upon the surface



Tray denesting and pick and place demonstrations

A range of tray denesting and pick and place machine was demonstrated on the stand of FP Packaging Machinery Ltd.

Among machinery on show was the Pneufed patented air jet denest system which is ideal for thin plastics trays used by the biscuit and bakery

industries. The single head version can run at up to 150 trays a minute, says the company (Walnut Tree Close, Guildford, Surrey GU1 4UB - tel: 0483 32811, fax: 300078).

The series 20 reciprocating pick and place machine can also be used for denest-

ing trays but can be applied for the placement of card inserts, leaflets and coupons as well. It cycles at around 65 a minute. The series 30 machine can run at up to 400 a minute - the four head version - while 800 a minute can be achieved with a twin

head configuration.

Denesting equipment for foil or board trays or where low cost denesting at high speed is required was shown in the form of the Series 5 Dispens-a-tray mechanical denester.

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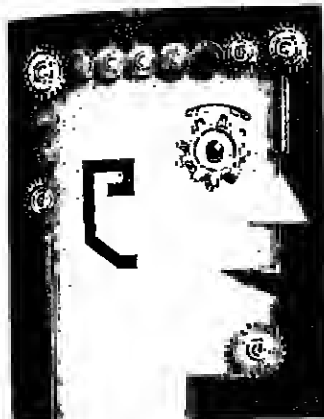
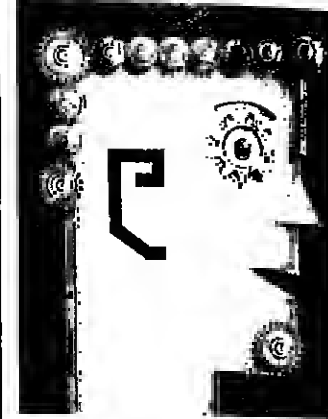
Handling a range of shapes

A nine head rotary packing machine that handles semi and rigid containers up to 250 x 350mm, in a wide range of geometric shapes and neck configurations was launched by G Webb Automation Ltd.

The Model RP250 was mounted over a Yamaha model ADW-508-MD multihead weigher at the show and was demonstrating weighing and filling product into plastics jars.

Also demonstrated by the company (Link Ind. Est., Howsell Road, Malvern Link, Worcs - tel: 0684 892929, fax: 576044) were other auger type volumetric and weight controlled filling machines.

For further information K10 Call for details 120 0839 772288



A labeller that applies self adhesive, tamper evident security labels onto erected, filled 'aeroplane' and 'reverse tuck' cartons was shown for the first time in the UK by Newman Labelling Machines Ltd.

Also demonstrated was the 5FL/EXP general purpose pharmaceutical labeller in conjunction with a Lactis 4P barcode reader.

The CTE250 machine labels cartons in a size range of 12 x 20 x 70mm up to 120 x

A reliable range of applicators

A range of semi and fully automatic labelling systems was demonstrated by Avery Dennison UK Ltd.

Reliable, accurate and well engineered is how the company describes its range of applicators, from table top semi automatic systems through to standard automatic labellers and custom built main frame systems.

A recent example of a

Labelling aeroplane cartons

120 x 250mm at speeds of up to 250 labels a minute. The older, general purpose machine, can label round, square, rectangular and oval shaped containers at up to 275 labels a minute.

Both machines have been designed to make validation of security systems a simple process, says the company (Queens Road, Barnet, Herts EN4 4DL - tel: 081-440 0044, fax: 081-449 2890).

A key feature of equipment from the company is the recently launched Newman validation package which is a compilation of machine-specific documentation which accompanies each labeller. It is said to simplify a number of requirements, including installation qualification (iq) and operational qualification (oq).

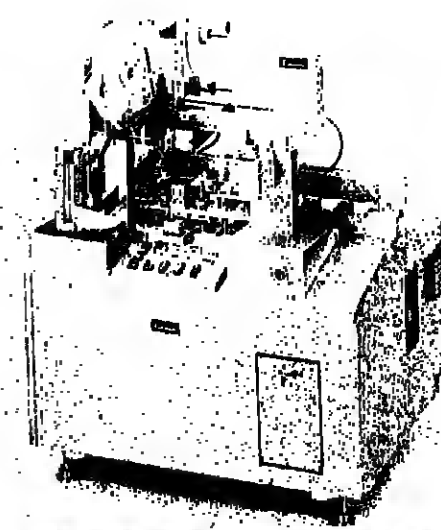
For further information K10 Call for details 121 0839 772288

fully automatic unit is the Rotary 350, which applies labels at up to 400 a minute.

Two, three or four labelling heads can be used at one time to allow label application on the front, back and top of products, says the company (Business Systems Division: Thomas Road, Wooburn Industrial Park, Wooburn Green, High Wycombe, Bucks HP10 0PE - tel: 0628 859500, fax: 859599).

The ALS 2000 mainline labelling system was also shown, and this unit can label up to 150 products a minute and is said to be an ideal choice for contract packers.

For further information K10 Call for details 122 0839 772288



Newman CTE250 carton tamper-evident labeller: first UK appearance

Coding, marking and weighing developments

Developments from Graseby Product Monitoring included coding and marking systems from Graseby Allen, metal detection units from Graseby Goring Kerr, x-ray inspection equipment from Graseby GK Interrest and checkweighing machinery from Graseby Best.

The D40 checkweigher, said to offer advantages of remote site controllability through greater system intelligence was launched. Also seen for the first time was Combicheck, a range of fully integrated check weigher/metal detection systems.

Combicheck combines all

the features of the new D40 checkweigher with the sensitivity and accuracy of the DSP II metal detector, says Graseby Goring Kerr (Vale Road, Windsor, Berks SL4 5JN - tel: 0753 869351, fax: 840079).

Thermal moving

Graseby Allen used the NEC-based event to launch its thermal moving head printer. The bi-directional printing action of the unit is said to save time while virtually doubling throughput on intermittent motion packaging machines.

For further information K10 Call for details 123 0839 772288

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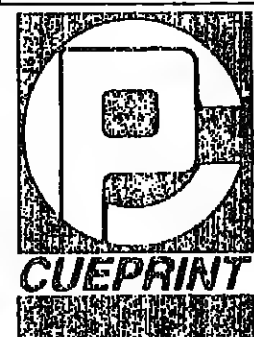
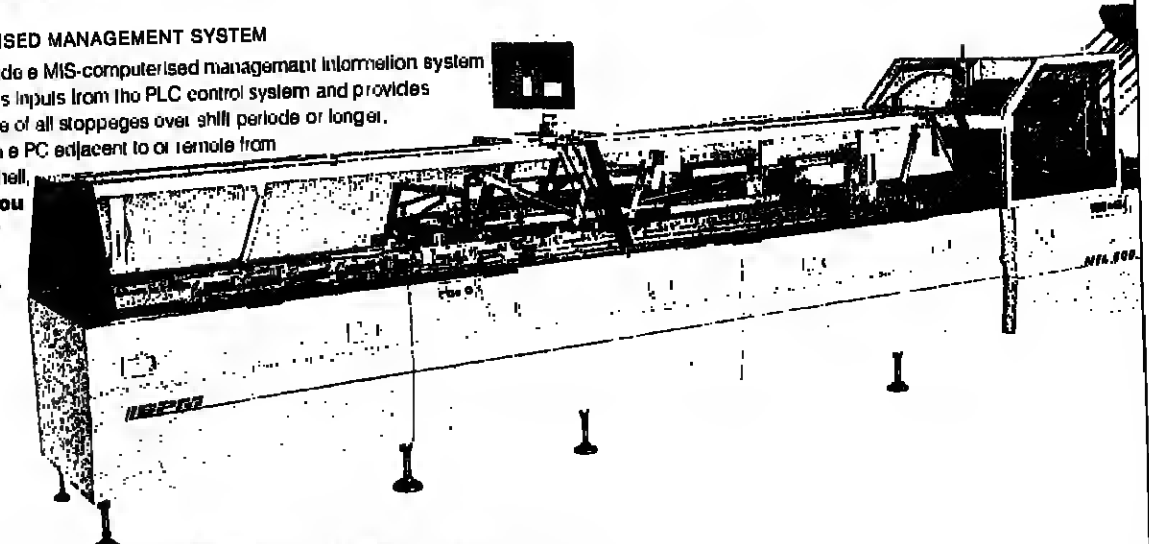
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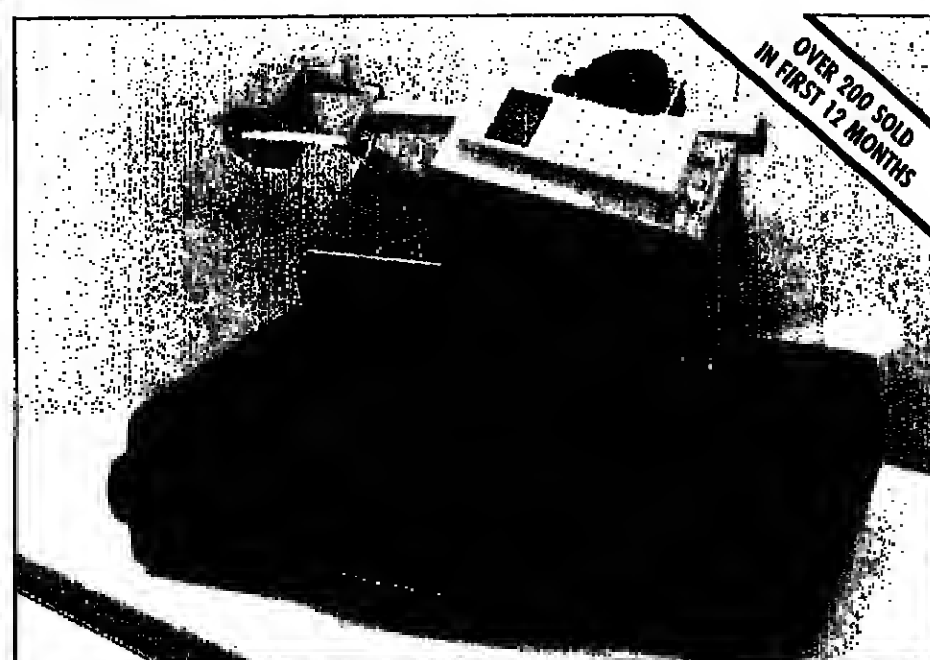


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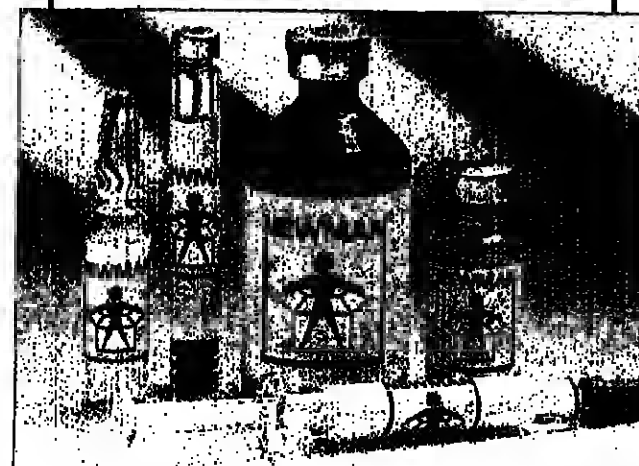
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Laser coder prints four lines of text in various formats

Three products were launched by Lumonics Ltd - the latest Xymark laser coder, a further Autocode III stencil changing system and LaserMark 960, a pulsed laser coder.

The latest Xymark is the first laser coding system to offer the capability of up to four lines of text in various dot matrix font formats, says the company (Gothenburg Way, Sutton Fields Industrial Estate, Hull HU7 0YE - tel: 0482 831154, fax: 839233).

Designed with a smaller footprint and with a compact outer casing to save space on the factory floor, the Xymark offers users updated software control with large graphics and customised date and time options.

The unit offers on-line coding of many materials through the laser beam reacting directly with the material surface to apply an indelible mark. The code can now be applied in single or multi-line format, with or without graphics information, which offers users greater coding flexibility than previously available, says the company.

Xymark dot matrix coding system from Lumonics

Launched alongside the Xymark was the LaserMark 960, the latest in the series of pulsed laser coding systems. It can mark at line speeds of up to 1500 products a minute.

Shown at PPMA integrated into the LaserMark 960 was the next generation of Autocode automatic stencil changing systems. It is said to offer an 'absolute position' option for continuous feedback of each stencil's position. This provides increased integrity for applications where absolute verification of the coded information is required.

For further information K10-129 Call for details 0839 772288

Automatic tube filling machine will make its debut

Making its debut on the Adelphi Manufacturing stand was a TGM Meccanica E250 automatic tube filling machine, following Adelphi's appointment as sole UK agent for the Italian company.

Very competitively priced, the E250 is capable of filling up to 2500 tubes an hour, says the company (Olympus House, Mill Green Road, Haywards Heath, W Sussex RH16 1XQ - tel: 0444 440091, fax: 440272). It can handle thermoplastics, laminate and metal tubes in diameters of 10-50mm and in volumes of 2.5 to 360g.

It can also be adapted to fill syringes and pots.

The Rota FLR50/G vial filling and sealing machine was

also demonstrated for the first time. It runs at up to 6000 vials an hour.

"Filling flowing liquids"

A bench mounted unit which can fill, cap and label containers of free flowing liquids was demonstrated. It can also take an automatic cap feeder.

Products from the recently acquired Goldstream Engineering company were also demonstrated.

For further information K10-129 Call for details 0839 772288

A wide web feature and very fast print

A purpose designed print and apply unit which has a wide web feature and very fast print, was launched by Sparkprint Ltd.

Robust use

Manufactured for robust, heavy industrial use, demonstrations of the unit were seen throughout the show. Also launched was a Challenger labelling head which has been designed and manufactured specifically for tactile warning labels.

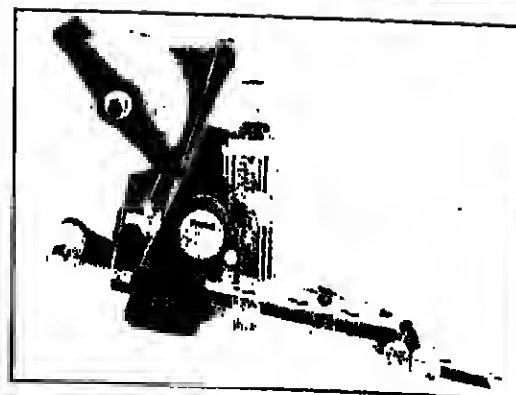
On-line labelling options

now available from Sparkprint (Darlington Road, Northallerton, N Yorks DL7 8UA - tel: 0609 780333, fax: 780423), include a pre-registration unit for faster labelling throughput of cylindrical containers, thermal print apply for hazardous chemical warning labels and a chain alignment infeed system for accurate front and back labelling of oval bottles.

All labelling systems can now be supplied flameproofed to Zone 1, class 1 T6.

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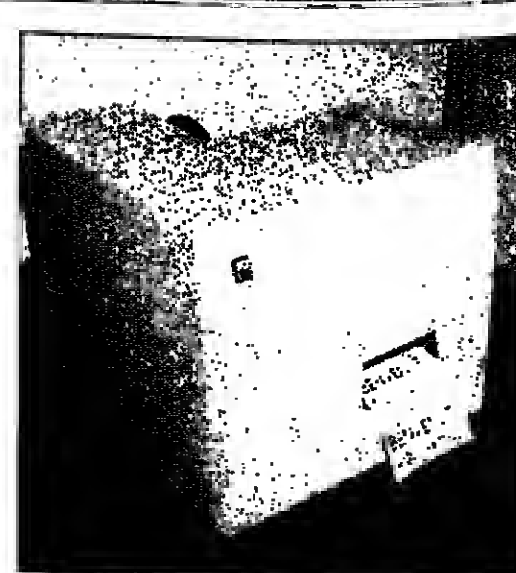
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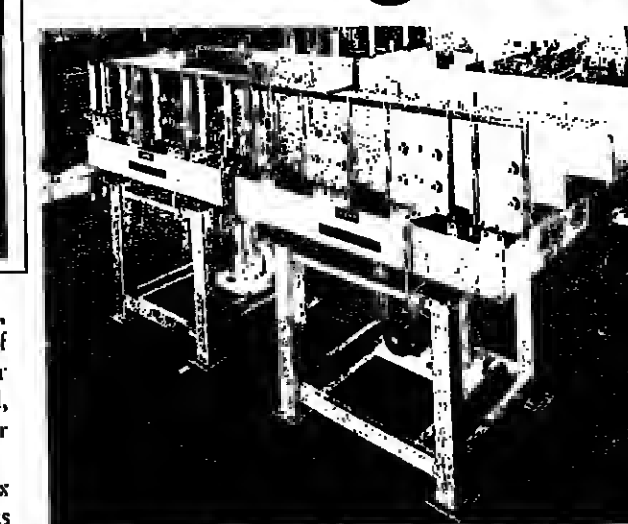
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Grading fries



Three level grader from Driver Southall, made for frozen chips

A specialised grader, developed as a result of a significant order from Farm Frites in Poland, was promoted by Driver Southall Ltd.

Approximately 4000 x 1000 x 60cm, the grader sorts french fries onto three levels and forms a vital part of a feed system which has been built to the specification of the customer.

Fabricated in stainless steel with a galvanised steel base, the conveyor is hydraulically driven and comprises a series of plates with different holes to grade chips. "It surpasses anything of this type we

have built before," says Trevor Taylor, sales manager of the company (Maybrook Industrial Estate, Brownhills, Walsall, Staffs WS8 7DG - tel: 0543 375566, fax: 375979).

The grader is fed by a bucket elevator and is capable of handling several tonnes of product an hour. It can outfeed

in two directions into a modular feed system, says Driver Southall Ltd.

The latest versions of the company's P450 motorised checkweigher and the Pilot 90 checkweigher were also on show.

For further information K10-129 Call for details 0839 772288

In-line capping unit works with filler

Visitors to the Universal Filling Machine Company's stand saw the first demonstration of an in-line capping unit working with the established MK2 Posimatic volumetric filler. It was shown filling liquids at a rate of approximately 70 bottles a minute.

System accuracy

This system can also fill creams, gels and many other cosmetic, pharmaceutical and toiletry products at speeds up

to 150 bottles a minute with a volume range of 5ml up to 1 litre. It fills to an accuracy of ± 25 per cent, says the company (Pond Lane, Kingsnorth, Ashford, Kent TN23 3JE - tel: 0233 643666, fax: 634431).

Recent addition

Machines demonstrated in the Posifill semi-automatic volumetric machine range included the Posiwin, a recent addition, and the Posifill 5000, which has a volume range of 250ml up to

5.8 litres. It was shown filling 5 litre containers.

Also demonstrated was a 2-head version of the Easifill range of semi-automatic vacuum operated filling machines which are said to be ideal for filling glass and rigid plastics containers with various cosmetic products.

A low cost Handifill manually operated unit was shown filling hair gel.

For further information K10-129 Call for details 0839 772288

Impulse inkjet

A range of impulse type inkjet printers was launched by Colant Ltd.

At the heart of the equipment is specially designed controller which can operate two to eight rows of print on one or two independent production lines. It is also capable of slant prints, where individual vertical dots are compressed into a merged print, which is particularly useful in barcoding applications, says the company, which is based at Faraday Close, Hampden Park, Eastbourne, E Sussex BN22 9AE - tel: 0323 520308, fax: 520146.

Non porous surfaces

The controller was demonstrated coupled to a P32 print head which can print up to 24mm high on non porous surfaces at a speed of up to 150m a minute.

A further development on show was an inexpensive high definition, large character printer. The T120 is compatible with the universal controller, and gives 120 dot definition for multi row printing. Line heights up to 32mm can be achieved which means cases can be marked with barcodes and complex logos.

Pigmented or dye inks are available in most colours including white. They can also be indelible or uv readable, says the company.

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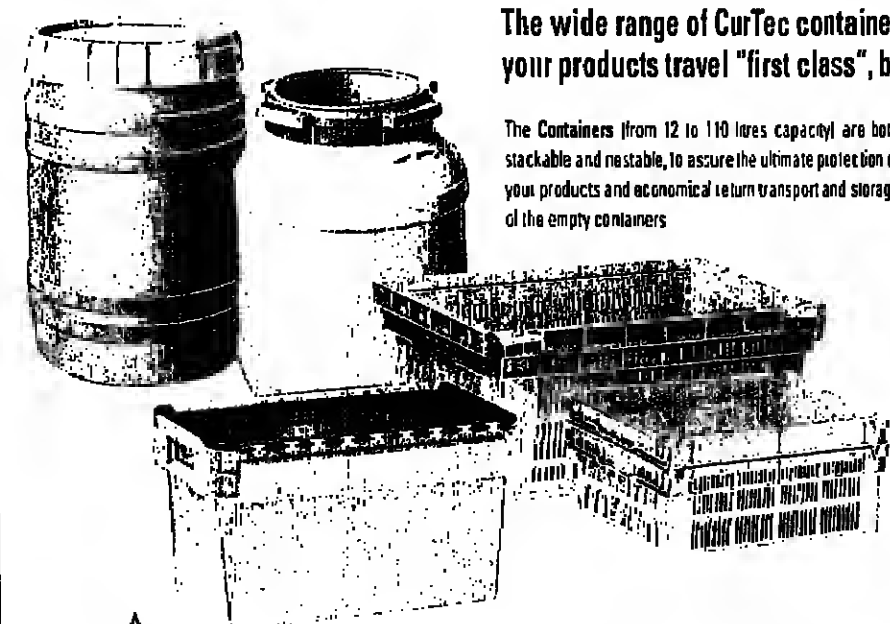
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NEWS



The opp film: a matt overcoating gives an 'old fashioned' look

Film gives biscuits an old fashioned paper-like image

To reduce overall packaging weight and cost, while increasing barrier properties and improving machinability, Fox's Biscuits has chosen an opp film from Mobil Plastics Europe.

image, says Mobil (UK: 1 Towers Place, Eton Street, Richmond, Surrey TW9 1EG - tel: 081-332 6261, 081-332 6256).

The Oppalite film is a white opaque, low density opp film, coated with acrylic on one side and pvc on the other. It was selected because of the barrier properties against oxygen, light and humidity, which helps to preserve aroma. Because it is a monoweb material, overall packaging weight has been reduced and the film works well on horizontal form, fill seal equipment.

Converter of the film is Bonar Teich Flexible of Dundee.

For further information call 0839 772288

Two plastics bottle ranges extended

Responding to a market demand, International Bottle Company Ltd (IBC) is extending its Elizabeth and Canterbury ranges of standard plastics bottles.

The Elizabeth range includes glass and plastics bottles, says IBC Ltd (Beagle House, Bull Plain, Hertford, Herts SG14 1DT - tel: 0992 551751, fax: 554342). The oval hdp Elizabeth bottles are available in a minimum quantity of 25,000. Supplied in pe, the Canterbury is a classic flattened shape with rounded shoulders. To 150, 200 and 250ml sizes will be added a 50 and 100ml.

For further information call 0839 772288

Celebrating 25 years self adhesive success

Multiprint Labels is celebrating 25 years of successful trading in the self adhesive labels business this year.

Since 1969, the company has developed into a multi-million pound company and now exports in excess of 80 per cent of its production to the UK

and mainland Europe. Over £7 million has been invested since 1989 by the company (Narc Road, Dublin Industrial Estate, Glasnevin, Dublin 11 - tel: 300544, fax: 307910).

For further information call 0839 772288

COMPANY NEWS

RPC Group plc has acquired the UK packaging business of Mekechic plc for £6 million. Mekechic manufactures dispensing closures at Halstead and promotional plastics packaging at its Market Rasen plant. "This acquisition represents the first step in our strategy to expand our business into complementary areas," says Ron Marsh, chief executive of RPC (0933 460020).

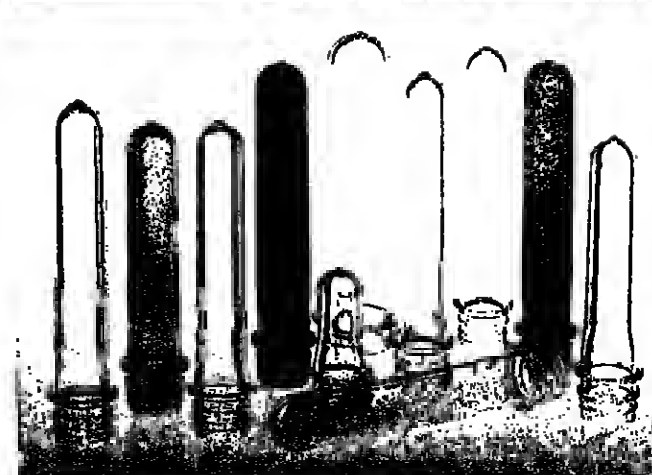
Arco Packaging Machinery Ltd has been formed to market thermolaminating machinery and specialised wrapping and vacuum systems from Collmatic Srl in Italy and also the range of vertical/horizontal bagmakers from Kawashima, Japan. The new company is based at 15 Church Road, Codsall, Wolverhampton WV8 1EA - tel: 0802 847878, fax: 847909.

Print Design and Graphics Ltd (091-264 4638), has just invested £1.6 million in printing equipment and prepress facilities at its extended factory on Tyneside. Minister for Energy Tim Eggar MP recently visited the plant to start the Komori litho presses rolling.



Tim Eggar MP at Print Design and Graphics Ltd: (left to right) Gordon Scorer, director of PDG, Tim Eggar MP and Dave Gillender, director of PDG

Abertay Paper Sacks is investing over £4 million to make its Aberdeen factory one of the most automated sack plants in Europe. Equipment to provide sacks



Continental PET Europe is continuing to expand into Eastern Europe with the commissioning of its factory in Radomsko, Poland. The company (UK: 0538 401424), is currently the largest producer of pet preforms and bottles in Europe and claims a market share in excess of 25 per cent of pet preform supply in Poland.

on the reel, a Windmiller & Holscher sack bottoming machine and a fully computerised intermediate tubes storage system for pasted valve sacks will be installed by the company (0224 712881).

Storey Evans (0532 502323), is introducing a new printing process to its self adhesive labelling operation with the installation of a £80,000

Aquallex LC1005, flexo press. It is a pilot machine to test the capability of the process, and could be the first stage of an expansion into flexo by the company.

Borealis' first set of six month results show that the group is now making progress towards performance improvements, following the merger of Neste and Statoil.

extender and converter, Farlem Ltd to Morlin Flexible Packaging Ltd (0507 691161).

Melronic Printing and Coding Ltd is the UK company set up by Melronic GmbH to sell and service the range of coding and marking machines throughout the UK and Eire. The new company, which has Richard van den Berg as its managing director, is located at: Hyde and Over House, Little London Road, Horsham, Sussex TN21 0BL - tel: 0435 813086, fax: 813713.

Foilwraps Flexible Packaging (0604 583121), is expanding its range of services with a £2 million investment in prepress and printing facilities. A Barco prepress system has already been installed and a W&H Starflex flexo press is being commissioned this month.

Corporate Packaging has moved to 23 Long Garden Walk, Farnham, Surrey GU9 7HX - tel: 0252 717077, fax: 717005.

All companies in the newly merged AssiDöman group, which comprises Assi, Döman and NCB, will now trade as AssiDöman Packaging. This includes Medway Packaging of Aylesford, which will be known as AssiDöman Medway (0622 717855).

ADAS hygiene accreditation has been gained by Skilaw Packaging - Venus and Felcon (0802 324391).

Ahlbrandt Systems (UK) Ltd and Enercon Industries Inc have formed a joint venture company - Enercon Ahlbrandt UK Ltd (0296 330542) - in the UK, to manufacture and support the Euercon range of induction heat sealing equipment throughout Europe.

PACKAGING NEWS

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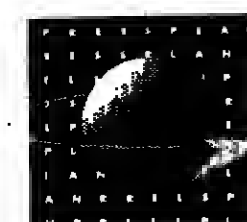
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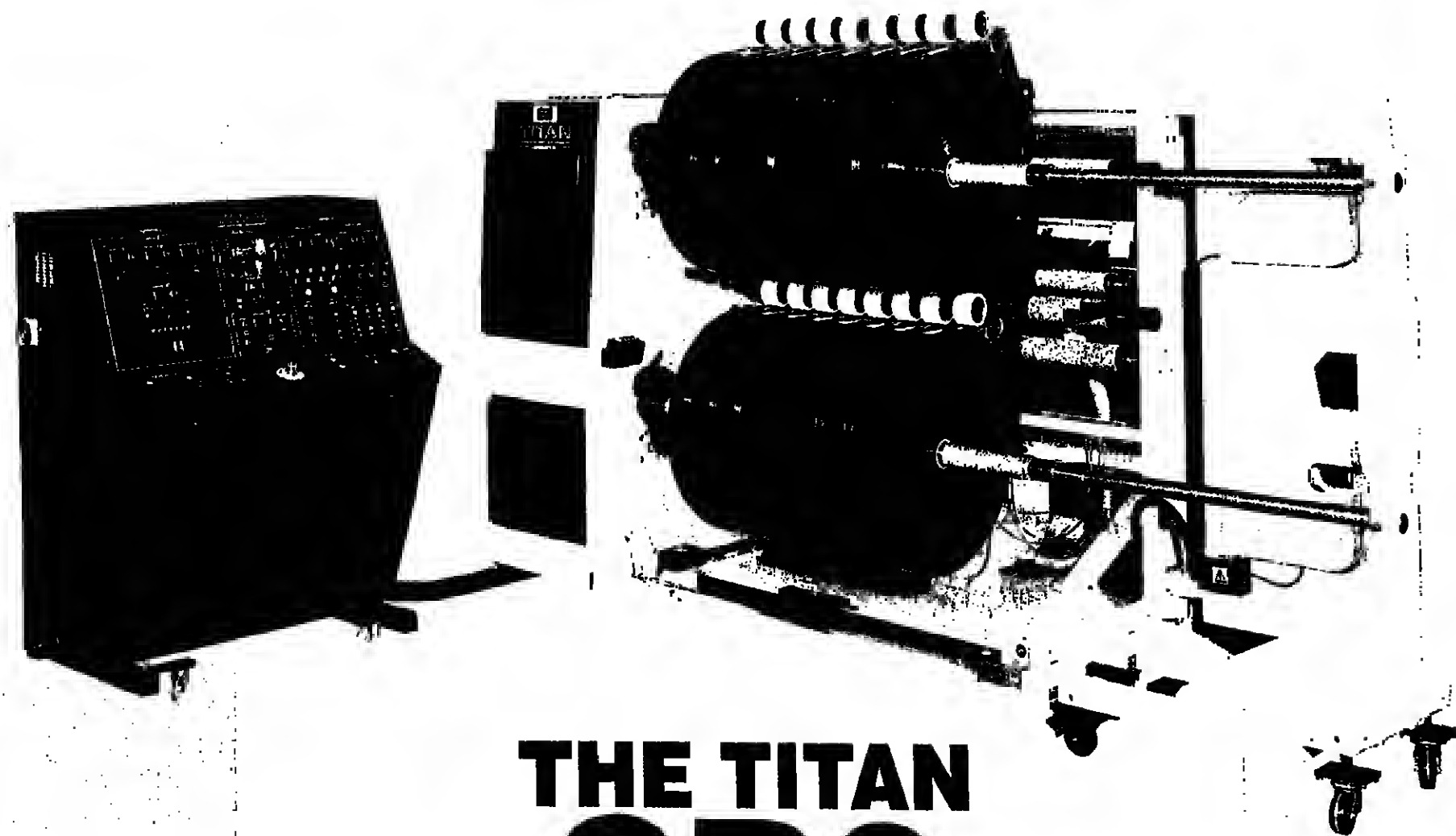
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THE WORLD

Six-colour carton installation

Mead Packaging, Bristol, has installed a KBA Planeta 142 six-colour press, which will be dedicated to the production of multipack carton blanks.

The installation, which includes a dedicated coater and perfecting facility between units one and two, is in line with the Mead Corporation's policy on European equipment. "To guarantee a secondary source of packs with consistent quality, we need to be compatible with our sister plants in Europe. We all therefore specify KBA Planeta presses because they are reliable workhorses," explains manufacturing director Morgan Beake.

Handling of stiff board is aided by the inclusion of a Spiess feeder and an air blast system is built into each unit on the Mead press to control the end of sheets during transfer.

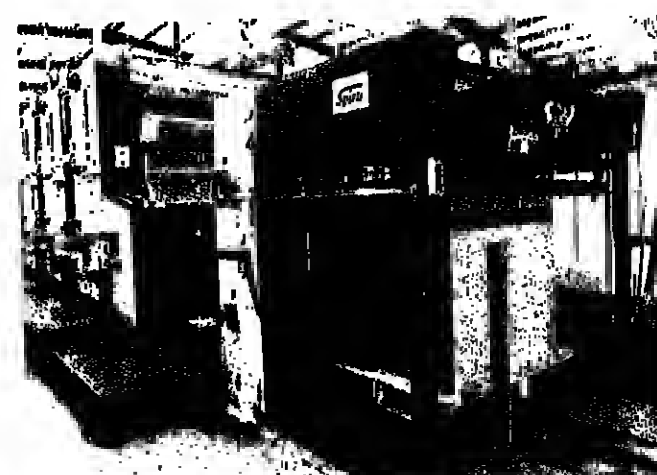
"We have found that the influence of Koenig & Bauer on Planeta has produced large format presses of the highest quality," says Mr Beake.

Baldwin automatic blanket and roller washers and Technotrans damping units also feature on the press, says KBA (5, Century Court, Tolpits Lane, Watford, Herts WD1 8RS - tel: 0923 819922, fax: 213411).

Membrane cuts cost of wastewater treatment

Costs for wastewater treatment can be drastically reduced using a membrane technology from Dutch company ATP (Advanced Treatment Processes) International, says the company.

Costs associated with pre-treatment, residual wastes and energy can be cut using the system, says ATP, which has



Spiess feeder: standard on all KBA-Planeta large format press

The operation must be able to cope with customers' short term marketing plans and promotions. "This is JIT at its sharpest, with customers aware that modern technology allows them to make decisions at the eleventh hour. But we have geared up the plant to handle this type of pressure," says Mr Beake.

Prior to printing and die cutting, reels of Mead's own Coated Natural Kraft (CNK) are sheeted on a Strachan & Henshaw twin knife unit, fitted with a Torres splicing and tensioning device.

Carton design is in-house through a cad/cam system which produces samples, with

just exhibited its technology at Amsterdam's Aquatech '94. A range of impurities can be separated from water, without the pre-treatment techniques - such as ion-exchange, filters or chemicals - required by many other systems.

Since use of the membrane surfaces is optimised, the system can work with lower pressures and so reduce energy requirements, says ATP (PO Box 161, 8050 AD, Hattem, Netherlands - tel: 010 31 5206 47447, fax: 5206 47495). Waste water percentages are also said to be low when compared with other techniques.

For further information K10 153 Call for details 0839 772268

Iplex management change announced

Management of the Iplex printing industry exhibition has switched from Reed Exhibitions (IRX), show owner Picon Ltd has announced.

Picon retains full ownership of Iplex, which is due to run next in 1998, but under its new contract IRX will manage the next four exhibitions until 2013.

While stressing that the rapid growth in new technologies means that the format of the show will need a lot of careful consideration, Picon deputy chief executive Norman Bayley told CW that it would clearly safeguard the interests of its large converging membership.

"We were very much impressed with IRX's vision for

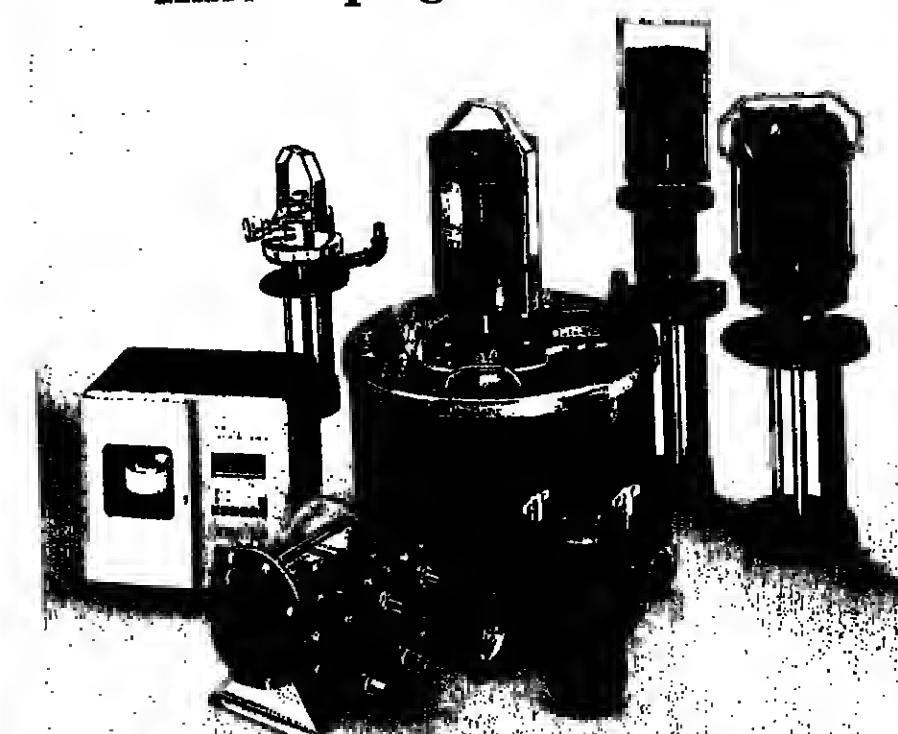
the Iplex brand and they presented a financially attractive package," says Picon chief executive Colin Middlemiss.

"What we would hope to do for Iplex is to be able to take a long term view and develop the exhibition from event to event," says Iain Melville, md of IRX. Picon will still be collaborating with Reed Exhibitions on the Converex show, says the industry organisation (Queens House, 55-56 Lincoln's Inn Fields, London WC2A 3LJ - tel: 071-831 3303, fax: 071-831 6029).

Among those recruited by IRX to back up its portfolio of exhibitions are David Korse and Will Morris, both previously with Reed Exhibitions.

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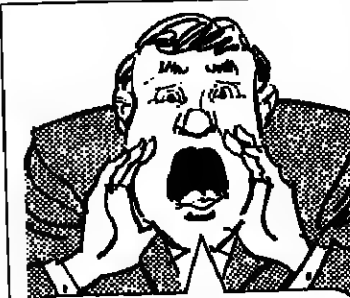
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Flexo addition

Rapid expansion has led the Design and Display Group to invest in the UK's first Oscar Friedheim Propheteer 1000 Flexo press for its flexo label business. The Devon-based company decided the press would add to its rotary letterpress capability, says Oscar Friedheim Ltd (250 Waterloo Rd, London SE1 8RE - tel: 071-928 1363, fax: 071-928 9361).



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TURN TO THE BACK
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Visitors and exhibitors alike seemed to be very enthusiastic about the business convened during Convertex last month. As *Converting World* went to press, 2200 visitors had attended, with one more day to go. This had already beaten the 1992 show's attendance which was 1700 overall. Here we highlight just some of the products on show.

CONVERTEX REVIEW

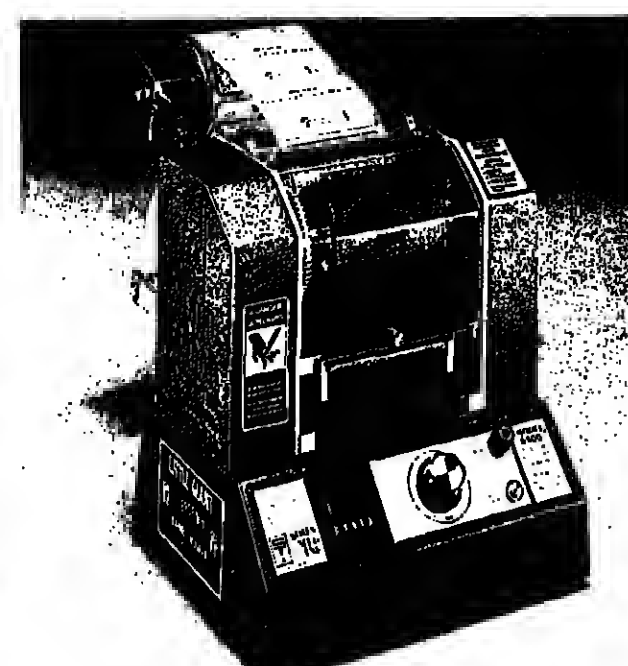
Compact desktop labelmaker

The Sohn compact, desktop, self adhesive labelmaker range of equipment, said to be ideal for short run or in-plant label production, was demonstrated by Pinewood Label Systems Ltd.

The machines take full advantage of current flexo ink and platemaking technology to produce quality one colour butt labels from rolls of self adhesive base material, says the company (The Stables, Old Charlton Road, Shepperton, Middx - tel: 0932 243724, fax: 246632).

Label length can be automatically determined and cut without mechanical adjustment or expensive tooling.

For further information, call for details K11 618 0838 772288



The Sohn 6400 labelmaker

Retrofit service offered on drying and curing systems

Designer and manufacturer of drying and curing systems, Techni Dry will now offer flexo printers a retrofitting service to add various systems to existing printing presses.

These include infra red, hot air knife and ultra violet curing systems, all designed by Techni Dry and now being supplied to corrugated board printing machine manufacturers as standard options.

Technical personnel from the company visit sites to investigate the possibilities of including drying and curing equipment on existing printing presses.

Inter-colour drying is achieved through a patented drying head using a specially tuned infra red lamp for flexo inks. This enables 'wet on dry' printing for much higher dot quality and increased production speeds, says the company (Mount House, Bond Avenue, Milton Keynes MK1 1LA - tel: 0908 646000, fax: 646111).

To accommodate uv and aqueous coatings, which are used more and more to give a high gloss sheen and a protective quality to the board, Techni Dry has designed in press and add on conveyorised systems.

For further information, call for details K11 618 0838 772288



Orion / Double E manufacturing agreement was signed at the show

UK-made metal shafts

Orion Machinery, who signed a distribution agreement with American airshaft and chuck manufacturers Double E earlier this year, are now to make part of the range in the UK.

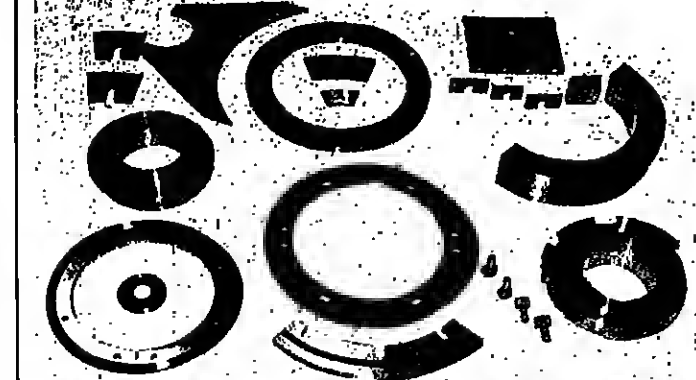
In an agreement signed at the show, Orion will make Double E's range of metal shafts, which will be offered at lower prices once manufacture gets underway. Construction and quality will be identical to US-manufactured shafts, with some specialised components still being supplied direct from the US.

Customers of metal shafts are very cost conscious and therefore the move will enable us to offer the premium quality of Double E shafts at very competitive prices, says Orion Machinery (Draycott Business Park, Cam, Dursley, Glos GL11 5DQ - tel: 0453 890881, fax: 890312).

Manufacture of carbon fibre shafts will continue to be carried out in the US.

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CONVERTEX REVIEW

Auto profile control for film

An advanced auto profile control system for blown film lines shown by Battenfeld Gloenco Extrusion Systems.

It comprises one 225mm diameter three layer co-extrusion stationary internal bubble cooled die, with 814 polycool dual lip air ring, adjustable iris, and auto profile control for the production of three layer films for barrier packaging applications.

"Precise gauge control"

The die design provides optimum flow distribution of each layer for precise gauge control and low residence times, says the company (Berry Hill Industrial Estate, Kiddleminster Road, Droitwich, Wores WR9 9RB - tel: 0905 775611, fax: 776716). A major benefit

For further information, call for details K10 602 0839 772288

The auto profile control system for blown film lines shown by Battenfeld Gloenco

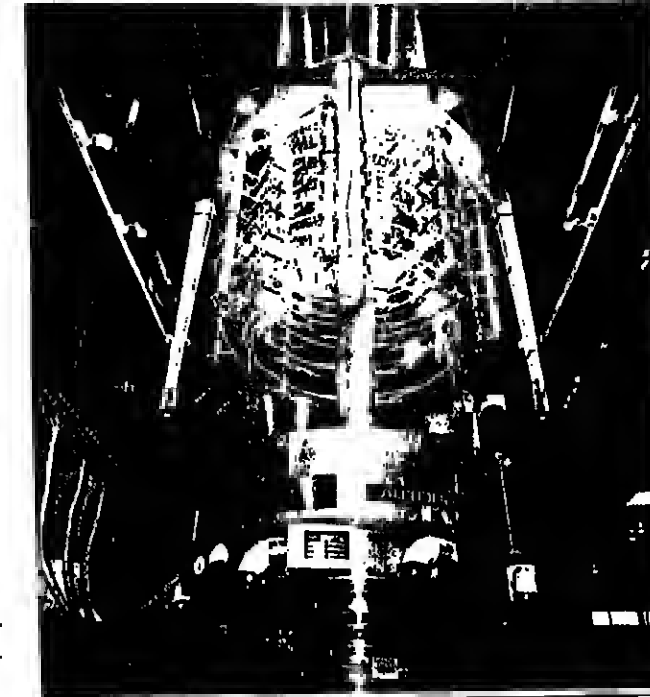
is an improvement in yield as the average gauge can be set closer to the minimum film thickness.

The Extral process control system, along with the gauge sensor, is able to control machine direction film thickness by adjusting the speed of the line.

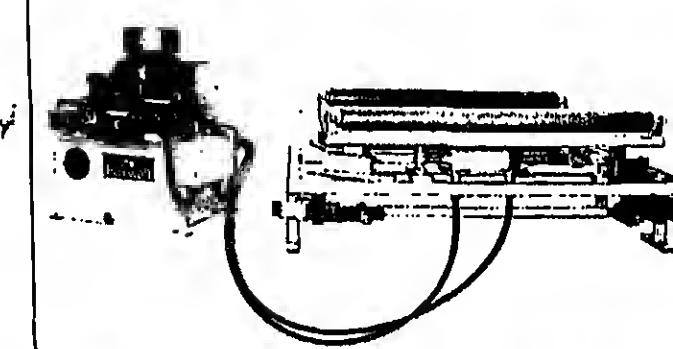
For applications such as hdp it is beneficial to be able to adjust the temperature at which the film is collapsed. The auto profile control system achieves this by accurately controlling the overall temperature of the air from the air ring, while still maintaining circumferential control.

The system can be retrofitted to most blown film lines, says the company.

For further information, call for details K10 602 0839 772288



Web guiding systems

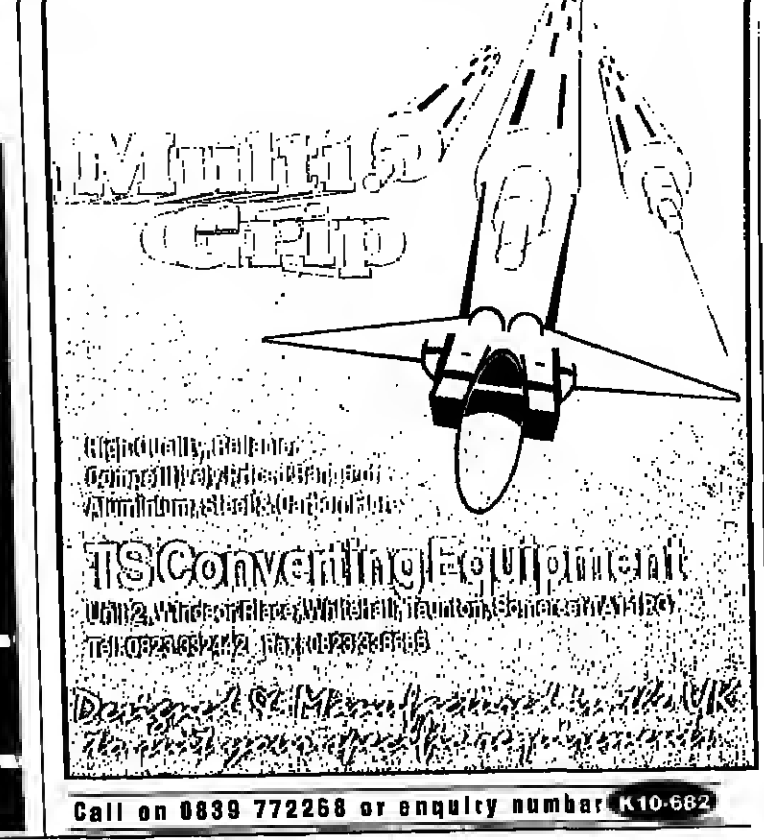


A full range of web guiding systems suitable for paper and plastics film was demonstrated by Daniel Foxwell (Engineering) Ltd (Mackenzie Industrial Park, Birdhill Lane, Chaddle Heath, Stockport, Ches SK3 0SB - tel: 061-428 7113, fax: 061-428 7125). A narrower width guiding system with linear actuators and photo-cell sensing was also exhibited.

A hydraulic shellless unwind station which has hydraulic motion and three different modes end which can be supplied with automatic tension control, completed the display.

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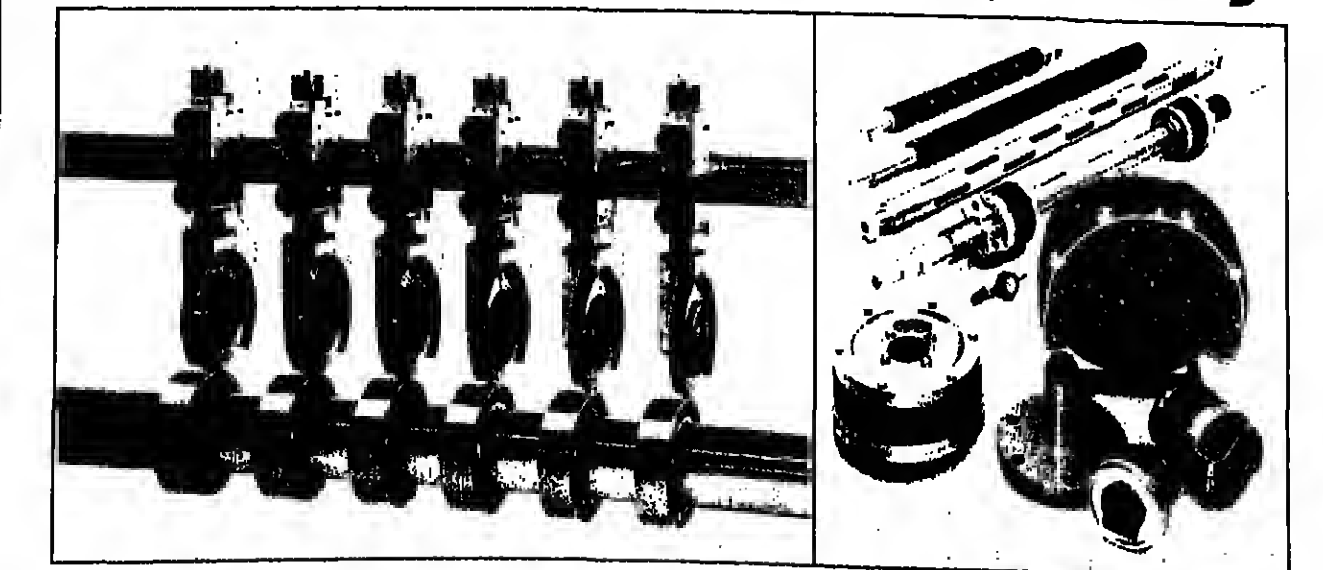
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Spooled tape investment in British-made quality

A £500,000 investment programme which aims to make Concorde Tape Solutions the most advanced producer of bubble-wrap tape in Europe has just been announced.

Specialising in spooling and converting adhesive and non-adhesive tape, the company has identified a number of product areas where mainly foreign competitors dominate the British and European markets.

"By Pake, we will have a wide range of British-made tapes that will provide a real quality alternative to imported versions," says John Murphy, chairman and managing director of Concorde (Concorde

House, Stewart Close, Evesham, W. Yorks BD2 2JE - tel: 0274 633315, fax: 626412).

"Broadest selection"

"We will have commissioned our new plant, which will give us the capability to produce the broadest selection of spooled tape widths in Europe."

Benefits of spooled tapes outlined by the company include increased productivity due to less downtime.

For further information K10 Call for details 0439 772268

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Metal deposition monitoring system can be retrofitted

The deposition monitoring system first introduced by General Vacuum Equipment (GVE) on its EHF range of roll coaters is available as a retro-fit on other converting machinery equipment, including existing installations of competitor metallising systems.

As the system's software measures the thickness of the metal being deposited on the film, it provides enhanced quality assurance for barrier packaging, says GVE (Penine Business Park, Pilsnith Road, Heywood, Lancs OL10 2TL - tel: 0706 622442, fax: 622772). It is fitted inside the metalliser to continuously measure the metal deposit in-process.

As the metallised film or paper (web) leaves the process coating drum, it passes around an insulating roller before it reaches the rewind roll. Mounted adjacent to the insulating roller is an alloy beam across the width of the web, with an array of electronic sensor heads. The heads are in close proximity to, but not touching, the web itself. Coils within the sensor



Measuring the optical density of the metal deposited on the film

heads carry radio frequency signals which induce eddy currents in the metallised surface of the web as it passes. The magnitude of the eddy currents is dependent on the thickness of the aluminium layer - a thicker layer has a lower electrical resistance so larger eddy currents are produced.

These eddy currents predictably 'load' or affect the behaviour of the sensor head coils such that the thickness of the metallising can be deduced.

Because the GVE monitor is measuring the electrical properties of the aluminium layer, it is suitable for metallised film, paper and printed/opaque webs, without the need for set-up changes in between. The system's software is able to convey the metal thickness to the user in different units, depending on individual requirements. For example, OHMS/SQ, optical density or angstroms.

For further information K10 Call for details 0439 772268

Easy-to-use corrugated casemaker

A British manufactured corrugated casemaker machine which has been designed to be easy to use and provide for fast production speeds, is available from Fyne Packaging Ltd.

As well as allowing companies to replace its stocks of cases by manufacturing in-house on a job basis, the Harrier machine also allows for special promotional or trial size cases to be produced, says the company (PO Box 443, Leighton Buzzard, Beds LU7 8AJ - tel/fax: 0525 852246).

Simple keypad

Operated from a simple electronic keypad, said to provide for set up times of around 15 seconds, the Harrier Boxmaker can manufacture 33 Feko case styles at production speeds of up to 600 boxes an hour. The unit, which can be supplied to meet special customer requirements, is ideally suited for in-house production, according to the company.

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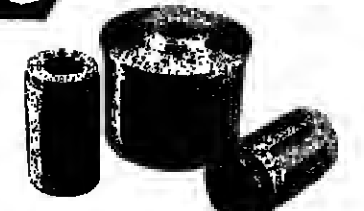


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PACKAGING SERVICES

Selling carbon fibre shafts direct

After more than two years of operational trials with carbon fibre shafts manufactured in-house, Coating and Laminating Systems (C&L) has established a joint company to sell products direct to the converting industry.

According to Carbonlite Ltd, it is set to exploit to the full, the exceptional physical properties of carbon fibres in relation to shafts and rollers of all kinds.

While the weight saving advantages inherent in substituting carbon fibre for steel have long been recognised by the industry, C&L directors Peter Emmerson and Phillip Hopley feel that now is a good time to enter this market.

The new manual handling

regulations limit the maximum weight which any individual may lift standing unaided to 25kg and so the extra cost of carbon fibre shafts is more than offset by any alternative handling costs now necessary, says the company (Banks Works, Tind Lane, Sowerby Bridge, W. Yorks HX6 2EQ - tel: 0422 835692, fax: 831167).

By pooling resources with a manufacturer of advanced F1 automotive structural parts, a system has been developed which is said to surmount the problems associated with earlier attempts to satisfy converters.

The shafts themselves are made in three easily identifiable colour-coded ranges, for light, medium and heavy duties respectively and, instead of

being wound from non-diluent fibre, use woven material fabricated by a special laminating technique designed to match the axial, radial and torsional loads involved.

As well as the overwhelming strength, to weight ratio that carbon fibre shafts

Mr Paarmen of Carbonlite with product samples



demonstrate over steel versions, the new shafts are said to give better damping characteristics, extended fatigue life and freedom from corrosion.

Confidence in the new process is high, not least because C&L has itself been quickly incorporating the carbon fibre shafts in its own coating and laminating machinery for more than two years.

According to C&L, these have been running trouble-free with customers worldwide throughout this period.

Sales of the new products will be the responsibility of new sales director, Andrew Paarmen.

For further information K10 Call for details 0439 772268

Versatile pressure former

Another form/curt/stack pressure former from Italian company TIF has just been supplied to Thermofilm Ltd by UK and Eire agent, Henry Lenox Industrial Ltd.

Thermofilm Ltd produces a wide variety of formings, including chocolate box and biscuit inserts, cosmetic and seed trays and therefore needs a versatile and cost effective machine. "The TIF 720 has no problem in coping with all our demands and there is minimum downtime for tool changes," says Denis Perks, managing director of Thermofilm Ltd.

Further information from Henry Lenox (99 Langham Road, Teddington, Mids TW11 9HG - tel: 081-977 5878, fax: 081-977 7212).

For further information K10 Call for details 0439 772268

Upgraded bubble unit

Significant roll quality improvements are now said to be available on Moplatan polypropylene films following the commissioning of a revamped and upgraded bubble unit, targeted specifically at the production of laminating film.

Further improved levels of service, including a 24 hour service for small, urgent orders is also now available from the company (Biffen House, Brantham, Manningtree, Essex CO11 1NW - tel: 0206 383346, fax: 395938). "We have always realised that quality is of the essence in laminating films," says Malcolm Watts, UK sales and product manager at Moplatan. "Both the 8PL 3 gloss and 8M 13 matt pp films are the result of many years development." Mechanical features of the film include high slip, anti-blocking and anti-static characteristics.

For further information K10 Call for details 0439 772268

UV curing inks offer advantages

Two ranges of high performance UV curing inks are now available from Casco Nobel Inks, a launch said to further strengthen the company's position in the UK label printing sector.

Flexocure UV flexo inks are suitable for universal application onto all types of paper, film and foil substrates and have been developed from Casco's Uvoflex inks range.

Key advantages over other ink systems include higher strength, lower viscosity, superior adhesion to films and foils, faster drying and a low irritancy factor, says the company (Dean Road, Cadishead, Manchester M44 5AJ - tel: 061-775 7311, fax: 061-775 0349).

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WEB, 1888, P070

SIMON VA CENTIFLEX 434, 4 COL, 47

WEB, 36" SPLICING, P4801

CMP PRESTIGE, 8 COL, 1400 MM WEB, 1991,

P021

PADANE ZODAC, 8 COL, 1350 MM WEB,

1072, P028

W&H OLYMPIA 1375, 8 COL, 1200 MM WEB,

1072, P028

W&H OLYMPIA 736, 8 COL, 1320 MM WEB,

1077, P028

COMEX BRUCH, 500L, 4 C + 2 STACK, 1

850 MM, P022

CMP MIRAGE, 8 COL, 1480 MM, 1988, P0413

CARRARO MONOCOROLEX, 8 COL, 1450

MM, P0147

MAP GALAXY, 8 COL, 1450 MM, 1986, P0159

1970, P0305

CARRARO KLIENTER, 4 COL, 1060 MM WEB,

1970, P0305

MANZONI NEZA 704, 4 COL, 850 MM WEB,

1989, P0239

FAK 33 OF, 8 COL, 800 MM FRAME, 1100

MM WEB, 1981, P027

MAP, BUFEEX/POH1, 4 COL, 800MM, 1873,

P007

CNAL INLINE, 4 COL, 1600 MM WEB, 1981,

P0200

FLEXOTECHNICA 726, 8 COL, 1050 MM

WEB, 1984, P0401

DYNALFLEX 130, 8 COL, 1700 MM WEB, 1989,

P0278

CARNIT 1234, 4 COL, 850 MM WEB, 1982,

P0280

MANZONI NESAFLEX, 8 COL, 1070 MM WEB,

1985, P0239

C.E.M., 4 COL, INLINE, 1350 MM WEB,

P0200

ROTOGRAVURE

ANDREOTTI, 8 COL, 800 MM, AUTO SPLIC-

ING, 1000 MM, PACKAGING FILMS, 1970,

P0188

HOLW

Upgrade package on corrugated post-print

Conversion of existing flexo and letterpress primer-slotters to chambered doctor blade inking systems can save sufficient ink to provide a payback in 18 months on post-printed corrugated, according to Synpro Machine Initiative.

The company has developed a series of standard upgrade packages for most existing corrugated post-print presses including Simon, S & S, Crosland, Finba, and Deritend. On flexo machines existing rubber roller doctoring is replaced with chambered doctor blades, the roller roller balanced and its housing modified to provide easier changeover. "The great advantage of

upgrading to doctor blades is the improved print definition, particularly important for barcodes and reversed-out type," says Synpro (River Works, Shepley North Industrial Estate, Shepley Road, Anderton, Manchester M34 5J2R - tel: 061-335 0748, fax: 061-335 9803).

The company recently carried out a conversion on a 100in wide two-colour printer. For older, letterpress machines the upgrade consists of replacing the inking system with blade doctoring allowing oil-based inks to be replaced by water-based versions.

For further information K10 608 Call for details 0838 772268

PRINT FINISHING

Narrow web press for cartons or film

A narrow web press aimed at medium to long run work and capable of handling materials from 50 micron unsupported up to carton board, has been announced by Gallus.

The CS250 can be equipped with letterpress, flexo, screen and hot-foil die stamping units, which pivot and slide out onto trolleys to be quickly exchanged for another unit, with no need for tools. A complete changeover of job, substrate and printing process takes 45 minutes, says the company (6-7 The Quadrant, Newark Close, Ruyton, Herts SG8 5JL - tel: 0763 242244, fax: 0763 242975).

As the print units are changed, a sliding control panel running the entire length of the



press records every change through a standard interface, providing a menu-driven visual display for each new make-ready. Changing the counter impression cylinder, for example, is said to be reduced to less than a minute.

To cope with a wide range of substrates, the CS250 is designed to accept ultra-violet curing units in a choice of positions, with up to three units at each printing station. A parabolic mirror, permeable to infra-red, helps reduce web temperatures. On single unit operation, letterpress speeds of 100 metres/min can be achieved, says Gallus.

Finishing equipment includes an electronically controlled flat bed die-cutting unit and cutting/creasing, stripping and guillotining for cartons.

For further information K10 607 Call for details 0838 772268

The Gallus CS250 is designed to break existing thought patterns by allowing maximum flexibility of production processes across many substrates

Flexopress allows for just-in-time decoration

Swan Mill Paper Co at Swanley, Kent, has installed the first Cooper flexographic printing machine



The Series II Model 800 machine from Cooper

and output, allowing the flexopress to run up to its maximum speed of 5000iph,

according to Cooper Printing Equip-

ment (Heathfield Works, Leyton Road, Harpenden, Herts AL5 2JB - tel: 0582 764431, fax: 0582 768608).

Using a flexopress, rather than conventional systems, allows cases to be decorated with full graphics on a just-in-time basis, as well as barcodes and alpha-numeric identification.

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PRINT FINISHING

Huge UK potential for the use of foil stamping, embossing and die cutting

Wine labels and swing tickets are among products that could benefit from the use of foil stamping, embossing and die-cutting, says US equipment manufacturer Brandtjen & Kluge.

While the North American market has long been aware of the value added by these techniques, the UK appears to be up to 15 years behind in appreciating their benefits, says the press manufacturer.

Technical awareness

When considering any of these processes, or a combination of them, companies should be aware of the technical requirements from the earliest possible stage. Foil and paper specifications, the types of embossing and production techniques are among the criteria that should be taken into account.

If paper is to be used it should be of a type with sufficiently long fibres to hold the embossing well. If laminates are being foiled, the correct match of materials should be selected, with the correct foil to achieve coverage.

Diecutting from artwork must also take account of heat expansion, given the temperatures of 60 to 70deg C required for embossing and 110 to 115deg C for foil stamping.

The majority of cosmetics

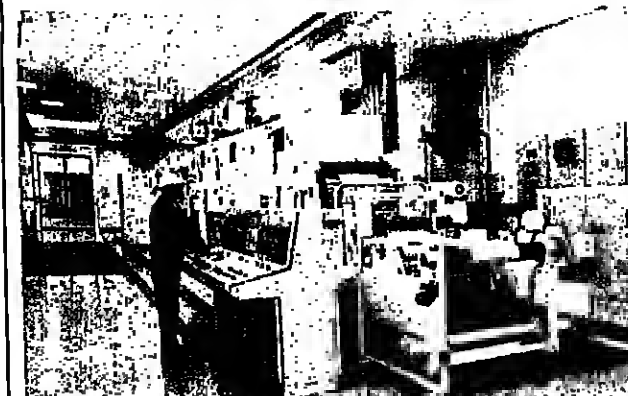
Example of foil stamping, embossing and die cutting

cartons are foil stamped and probably embossed, too. The cost need not be much higher than ordinary litho printing, and possibly less than four colour work, says Brandtjen & Kluge UK (Unit 3, Meridian Close, Cirencester, Glos GL7 1LT - tel: 0285 640341, fax: 640247).

Using a Kluge press, Armstrong Foil Stamping and Embossing was able to create a jewellery pack for the Caura Jewellery Company, involving foil blocking onto corrugated board. The company was able, by experimenting with different materials, to flatten an area of the pack before foil stamping it. This technique achieved the required result, pleasing both designer and client.

Armstrong used the same Brandtjen & Kluge FHD machine to produce swing tickets for garment point of sale. These were foil stamped and tie-hole punched. According to the converter, the FHD machines are extremely versatile and provide the high impression strength required. Other features are said to be good definition for embossing and accurate register for die cutting.

For further information K10 610 Call for details 0838 772268



The three-unit BHS flexo press at Lawson Mardon Singen

Flexo print repeat is infinitely variable

Lawson Mardon Singen in Germany has installed a three-unit BHS flexo press equipped with infinitely variable print repeat length.

Operating in the company's pharmaceutical packaging production centre, the press is employed on aluminium foil conversion with web widths up to 820mm and is capable of speeds up to 200 metres/min, says BHS (22 Apex Court, Woodlands, Almondsbury, Bristol BS12 4JT - tel: 0454 889961, fax: 0454 880336).

Combination carton press

Developed specifically for folding cartons and labels, the Canadian-built RLP Marathon LF-200 has interchangeable

In place of the incremental restraint on repeat lengths imposed by conventional format gears, the BHS system employs a direct drive on the print cylinders, under electronic control. This allows packaging designs suitable for flexo printing, but dimensioned for gravure, to be run.

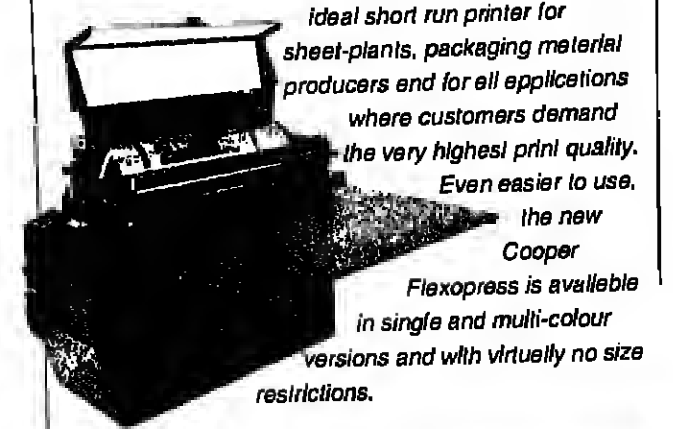
For further information K10 611 Call for details 0838 772268

web-offset and flexo printing inserts that can be changed over in minutes without tools. Contact Stanley Press Equipment (Graphic House, Bank Street, Macclesfield, Cheshire SK10 2JN - tel: 0625 429211, fax: 0625 619094).

For further information K10 612 Call for details 0838 772268

The Short Run Printer

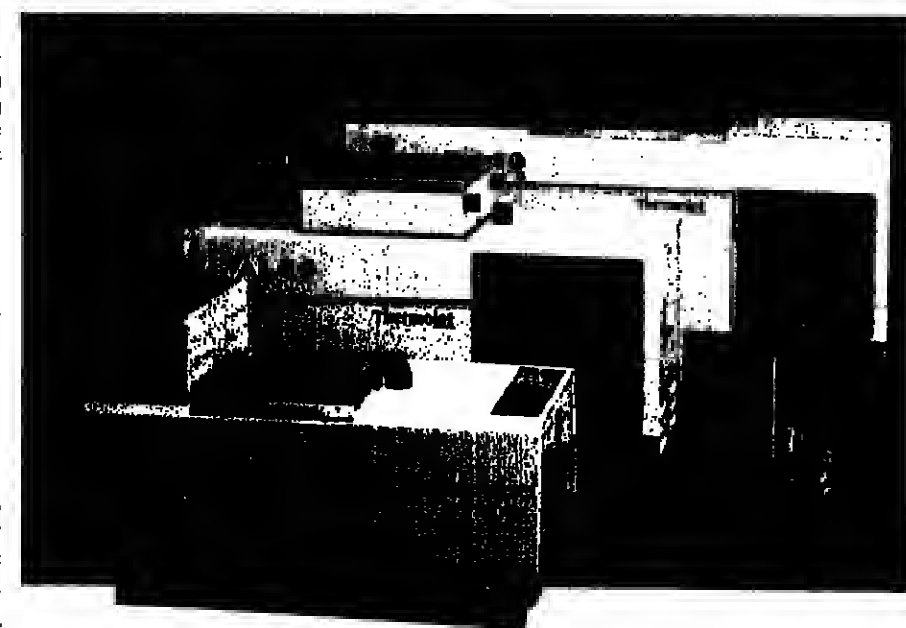
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AUTOMATIC
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AUTOMATIC
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SHRINKWRAP
RDL 24 x 30 SEMI AUTO SLEEVE
SEALER
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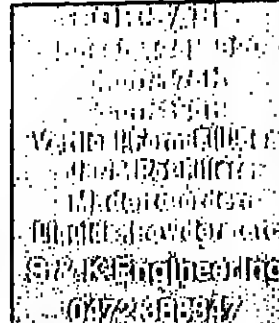
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PACKAGING NEWS

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THE PERSON

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